NUTR 175. Introduction to Food Studies: From Science to Society. 3 Credits.
Introduction to food studies covering a variety of topics including how food was consumed over history, land use and aquaculture, food in the arts, food and culture in the American South, food politics, and nutrition science.

Gen Ed: GL, NA.
Grading status: Letter grade
Same as: ANTH 175, AMST 175.

NUTR 240. Introduction to Human Nutrition. 3 Credits.
Relationships of human nutrition to health and disease. Integration of biology, chemistry, and social sciences as related to human function. Nutrient composition of foods and safety of the food supply.

Prerequisites: Prerequisites, BIOL 101/101L and CHEM 102/102L.
Grading status: Letter grade.

NUTR 245. Sustainable Local Food Systems: Intersection of Local Foods and Public Health. 3 Credits.
Examines the intersection of local foods and public health with respect to nutrition and environmental, economic, and community issues. Students explore impacts and potential solutions of the increasingly industrialized and centralized food system, while assisting community partners to increase opportunities for farmers, local food marketers, distributors, and entrepreneurs.

Gen Ed: EE- Service Learning.
Grading status: Letter grade.

NUTR 295. Undergraduate Research Experience in Nutrition. 3 Credits.
Permission of the instructor. For undergraduates enrolled in the department’s baccalaureate degree program. Directed readings or laboratory study on a selected topic. May be taken more than once for credit.

Gen Ed: EE- Mentored Research.
Repeat rules: May be repeated for credit; may be repeated in the same term for different topics; 12 total credits. 4 total completions.
Grading status: Letter grade.

NUTR 400. Introduction to Nutritional Biochemistry. 3 Credits.
Function of the human body focusing on chemical properties, function, and metabolism of nutrients. Biochemistry of nutrients with a limited focus on medical aspects of nutrient metabolism. For advanced undergraduates and graduate students needing to enhance background prior to NUTR 600.

Prerequisites: Prerequisites, BIOL 101, CHEM 101 and 102, and NUTR 240; permission of the instructor for students lacking the prerequisites.
Grading status: Letter grade.

NUTR 600. Human Metabolism: Macronutrients. 3 Credits.
Cell biochemistry and physiology emphasizing integration of proteins, carbohydrates, and lipids in whole-body metabolism; regulation of energy expenditure, food intake, metabolic adaptations, and gene expression; and macronutrient-related diseases (atherosclerosis, obesity).

Prerequisites: Prerequisite, NUTR 400; permission of the instructor for students lacking the prerequisite.
Grading status: Letter grade.

NUTR 611. Nutrition across the Life Cycle. 3 Credits.
This course covers nutrition during the life cycle. Units include women during preconception, pregnancy, and lactation; infancy; childhood; adolescence; and older adults (65+). Nutrient and energy needs, assessment of nutritional status, and cultural and socioeconomic barriers are discussed for each phase.

Prerequisites: Prerequisite, NUTR 400.
Grading status: Letter grade
Same as: MHCH 611.

NUTR 620. HUMAN METABOLISM: MICRONUTRIENTS. 3 Credits.
Cell biochemistry and physiology emphasizing metabolism of vitamins and minerals including antioxidant protection, immune function, nutrient control of gene expression, and disease states induced by deficiencies (e.g., iron-deficient anemia).

Prerequisites: Prerequisites, NUTR 400 and 600; permission of the instructor for students lacking the prerequisites.
Grading status: Letter grade.

NUTR 630. Nutrition Communication, Counseling and Culture. 3 Credits.
Course teaches the future nutrition professional the art and science of communicating with individuals, groups, and the public. Students will enhance cultural awareness, practice counseling individuals and facilitating groups, and frame nutrition messages for mass media including social media.

Prerequisites: Prerequisite, NUTR 240; permission of the instructor for students lacking the prerequisite.
Grading status: Letter grade.

NUTR 640. Medical Nutrition Therapy I: Chronic Disease Management. 3 Credits.
Course designed to examine the rationale and implementation of diet therapy and nutrition support in the prevention or treatment of chronic disease.

Prerequisites: Prerequisite, NUTR 630.
Grading status: Letter grade.

NUTR 642. Medical Nutrition Therapy II: Acute Disease Management. 3 Credits.
Course designed to examine the rationale and implementation of diet therapy and nutrition support in the prevention or treatment of acute diseases.

Prerequisites: Prerequisite, NUTR 640.
Grading status: Letter grade.

NUTR 650. Food Science and Culinary Arts. 2 Credits.
Introduction to foods, chemical and physical properties, nutritional composition, food safety, production, and regulation.

Prerequisites: Prerequisite, NUTR 400; corequisite, NUTR 650L.
Grading status: Letter grade.

NUTR 650L. Food Science and Culinary Arts Laboratory. 1 Credit.
Basic culinary techniques. Classes illustrate biochemical processes and food properties covered in lecture. Introduction to new foods and food ideas. Critical evaluation of recipes. Laboratory fee required. Three laboratory hours per week.

Prerequisites: Corequisite, NUTR 650.
Grading status: Letter grade.

NUTR 660. Food Service Systems Management. 2 Credits.
Permission of the instructor for nonmajors. Basic concepts of institutional food service systems management applied to small and medium-sized health care facilities in the community.

Prerequisites: Co-requisite, NUTR 660L.
Grading status: Letter grade.
NUTR 660L. Food Service Systems Management Experience. 1 Credit.
This is a food service management practicum that applies the basic concepts of institutional food service systems. Two laboratory hours per week.
Requisites: Co-requisite, NUTR 660.
Grading status: Letter grade.

NUTR 692H. Honors Research in Nutrition. 3 Credits.
Permission of the instructor. Directed readings or laboratory study of a selected topic. Requires a written proposal to be submitted to and approved by the B.S.P.H. Committee and faculty research director. A written report is required. May be taken more than once for credit. Six laboratory hours per week.
Gen Ed: EE- Mentored Research.
Grading status: Letter grade.

NUTR 695. Nutrition Research. 1-9 Credits.
Permission of the instructor. Individual arrangements with faculty for bachelor and master students to participate in ongoing research.
Repeat rules: May be repeated for credit; may be repeated in the same term for different topics; 12 total credits. 8 total completions.
Grading status: Letter grade.

NUTR 696. Readings in Nutrition. 1-9 Credits.
Permission of the instructor. Reading and tutorial guidance in special areas of nutrition.
Repeat rules: May be repeated for credit; may be repeated in the same term for different topics; 12 total credits. 8 total completions.
Grading status: Letter grade.

NUTR 700. Nutrition in Medicine. 2 Credits.
Comprehensive review of nutrition basics with strong clinical perspective. Integrates nutrient biochemistry and metabolism into a framework of nutritional assessment and dietary intervention.
Requisites: Prerequisite, BIOL 252 and NUTR 600.
Grading status: Letter grade.

NUTR 720. Public Health Nutrition Management I. 2 Credits.
Focuses on the roles and functions of the public health nutritionist in providing nutrition services at the community level that includes domestic and international nutrition programs, essential public health services, community assessment methods, and community engagement. For the MPH-RD student, it includes 336 hours of field experience.
Requisites: Prerequisites, NUTR 630 and 640, HBEH 600.
Grading status: Letter grade.

NUTR 725. Public Health Nutrition Management II. 3 Credits.
An overview of the planning and management of local, state, federal, and voluntary public health nutrition programs. Examines legislative and administrative structures.
Requisites: Prerequisite, NUTR 720.
Grading status: Letter grade.

NUTR 728. Nutrition Translational Research and Application. 2 Credits.
Permission of instructor for nonmajors. Designed to focus on translational nutrition research and application, including grant writing, to prepare students in clinical, public health, and policy arenas.
Requisites: Prerequisites, EPID 600, NUTR 725; and NUTR 813 recommended.
Grading status: Letter grade.

NUTR 735. National Nutrition Issues. 1 Credit.
Three-day in-depth seminar held in Washington, DC on national nutrition issues, policy formulation, and program development with key congressional staff, federal agencies staff, and pertinent public interest/consumer advocacy groups. Paper required. Field fee required.
Requisites: Prerequisite, NUTR 725; permission of the instructor for students lacking the prerequisite.
Grading status: Letter grade.

NUTR 745. International Nutrition. 3 Credits.
Provides a broad overview of international nutrition research issues, programs, and policies. Topics will include micronutrient deficiencies, child feeding and growth, determinants of under- and over-nutrition, chronic disease and nutrition, food fortification and supplementation, and nutrition intervention programs and policy.
Grading status: Letter grade.

NUTR 746. Taxes, Bans & Burgers: Directed Readings in Global Food Policy. 1 Credit.
Course will explore the social, historical, and political context of how individuals make decisions about what to eat; how this context shapes food policy; and how these policies in turn shape individual behavior, by employing a comparative framework over three countries (China, Mexico, and the U.S.).
Grading status: Letter grade.

NUTR 747. Issues in Global Nutrition. 3 Credits.
A review of the global burden of nutrition-related non-communicable diseases and to contributing global trends in the food system that shape policies and practices affecting nutrition and health outcomes.
Grading status: Letter grade.

NUTR 750. Graduate Teaching Experience. 1 Credit.
Permission of the instructor. Individual arrangements with faculty for a graduate student to serve as a teaching assistant for a nutrition course.
Repeat rules: May be repeated for credit.
Grading status: Letter grade.

NUTR 803. Advanced Nutrition Intervention Research Seminar. 1 Credit.
Development and application of critical thinking skills in the analysis of important nutrition and policy interventions. The course will examine conceptual models, research designs, intervention strategies, and measures of effectiveness in historical and innovative nutrition research.
Repeat rules: May be repeated for credit. 4 total credits. 2 total completions.
Grading status: Letter grade.

NUTR 808. Global Cardiometabolic Disease Seminar. 1 Credit.
This core seminar addresses biology, genetics, epidemiology, intervention and policy strategies relevant for addressing global cardiometabolic disease, as well as, professional development and responsible conduct of research in global settings.
Repeat rules: May be repeated for credit. 4 total credits. 4 total completions.
Grading status: Letter grade.

NUTR 810. Physical Activity Epidemiology and Public Health. 3 Credits.
This course provides an overview of major issues in physical activity measurements, population distribution, correlates, impacts (physically and economically), and public health recommendations. Interventions, including relevant theories, will be reviewed. Three lecture hours per week.
Requisites: Prerequisite, EPID 600.
Grading status: Letter grade
Same as: EPID 810.
NUTR 811. Development and Evaluation of Health Promotion and Disease Prevention Interventions. 3 Credits.

Permission of the instructor for non-majors. Doctoral seminar on application of theory and empirical evidence to intervention development, evaluation paradigms, and methods of process and outcome evaluations.

Grading status: Letter grade
Same as: HBEH 811.

NUTR 812. Introduction to Obesity: Cell to Society. 3 Credits.

Provides a broad survey of obesity research including measurement issues, biological, social and economic etiologies, health and economic consequences, and prevention and treatment of obesity.

Grading status: Letter grade.

NUTR 813. Nutritional Epidemiology. 3 Credits.

This course introduces basic methods of dietary assessment, reviews various topics in nutrition epidemiology, and teaches the skills needed for critical evaluation of the nutritional epidemiologic literature.

Requisites: Prerequisites, BIOS 545, EPID 715, 716 and NUTR 812 or NUTR 813/EPID 813.

Grading status: Letter grade
Same as: EPID 813.

NUTR 814. Obesity Epidemiology. 3 Credits.

Examines epidemiology research on the causes, consequences, and prevention of obesity. Emphasis on methodological issues pertinent to obesity research.

Requisites: Prerequisites, BIOS 545, EPID 600 or 710, and NUTR 812 or NUTR 813/EPID 813.

Grading status: Letter grade
Same as: EPID 814.

NUTR 818. Analytical Methods in Nutritional Epidemiology. 3 Credits.

Skills and techniques to study how dietary exposures, physical activity, and anthropometric status relate to disease outcomes. Focus is hands-on data analysis using STATA, and interpretation of results from statistical analysis.

Requisites: Prerequisites, BIOS 545, EPID 600 or 710, and NUTR 813.

Grading status: Letter grade
Same as: EPID 818.

NUTR 845. Nutritional Metabolism. 3 Credits.

A problem-based approach to examine current topics in biochemistry relevant to nutrition and metabolism. Students interpret data and design experiments related to recent advances in nutritional biochemistry.

Requisites: Prerequisite, NUTR 600.

Grading status: Letter grade.

NUTR 861. Advanced Nutritional Biochemistry: Nutrition and Immunology. 2 Credits.

Presents an understanding of basic immunology and the role of nutrition in modifying the immune response.

Requisites: Prerequisites, NUTR 600 and 620.

Grading status: Letter grade.

NUTR 863. Adv Nutr Biochemistry: Microenvironments-Inflammation in Obesity, Atherosclerosis, and Cancer. 2 Credits.

Will examine the interaction of cells in the microenvironment and recent advances in the role of metabolism and inflammation.

Requisites: Prerequisite, NUTR 600; permission of the instructor for students lacking the prerequisite.

Grading status: Letter grade.

NUTR 864. Adv Nutr Biochemistry: Oxidative Stress and Nutritional Antioxidants in Human Health and Disease. 2 Credits.

Course provides basic information about the cellular and molecular mechanisms that are responsible for generation of reactive oxygen and nitrogen species, about key cellular structures targeted by these species, and about the role of oxidative stress and antioxidants in etiology and prevention of human diseases.

Requisites: Prerequisites, BIOL 101, CHEM 102, and NUTR 400; Permission of instructor for non-majors.

Grading status: Letter grade.

NUTR 865. Advanced Nutritional Biochemistry: Nutrigenetics and Nutrigenomics. 2 Credits.

Permission of the instructor. Course focuses on nutrigenetics and nutrigenomics with an emphasis on the genetic and dietary interactions predisposing one to increased risk of disease.

Grading status: Letter grade
Same as: GNET 865.

NUTR 867. Advanced Nutritional Biochemistry: Vitamins and Disease. 2 Credits.

Focuses on the molecular processes involving B and D-group vitamins, mechanisms of pathologies caused by their deficiency, as well as the latest studies on nutritional requirements, population consumption levels, and use of the vitamins for treatment and prevention of human disease.

Requisites: Prerequisites, NUTR 600 and 620; permission of the instructor for students lacking the prerequisites.

Grading status: Letter grade.

NUTR 868. Advanced Nutritional Biochemistry: Nutrition and Cancer. 2 Credits.

The course will cover the biology of cancer as well as the metabolic and physiological functions of nutritional factors and how they impact the cancer process. The course will focus on aspects of current research that are relevant to links between nutritional factors, with emphasis on mechanism-based cancer prevention approaches.

Requisites: Prerequisite, NUTR 600 or equivalent.

Grading status: Letter grade.


Permission of the instructor for undergraduates. Seminar addressing current public health nutrition policy challenges and controversies including school lunch standards, sugar-sweetened beverages, Farm Bill, federal food programs, Affordable Care Act, and policies affecting local food systems like food policy councils, farm to school programs, and good agricultural practices (GAP) certification.

Grading status: Letter grade.

NUTR 880. Elements of Being a Scientist. 3 Credits.

Permission of the instructor. For doctoral students prepared with Ph.D. aims/focus. Focuses on key elements that contribute to a successful career as a scientific researcher. These include scientific presentations, NIH proposal grant writing, evaluating published manuscripts, sources of funding, peer review, use of animals and humans in research, and scientific ethics.

Grading status: Letter grade.

NUTR 885. Doctoral Seminar. 1 Credit.

This course is designed for doctoral and master of science students only. Critical review of current literature in nutritional biochemistry, intervention and policy, and population-based nutrition science. Focuses on the development of skills in reviewing and criticizing articles.

Grading status: Letter grade.
NUTR 910. Nutrition Research. 1-9 Credits.
Individual arrangements with faculty for doctoral students to participate in ongoing research.
Grading status: Letter grade.

NUTR 920. Research Rotations for Nutritional Biochemistry Doctoral Students. 1-3 Credits.
Two laboratory or research group rotations supervised by nutritional biochemistry faculty. Provides a breadth of research experience for students prior to selecting dissertation adviser. Up to six laboratory hours per week.
Grading status: Letter grade.

NUTR 992. Master's (Non-Thesis). 3 Credits.

NUTR 993. Master's Research and Thesis. 3 Credits.

NUTR 994. Doctoral Research and Dissertation. 3 Credits.