NUTRITIONAL SCIENCES (NUTR SCI)

NUTR SCI 132 — NUTRITION TODAY
3 credits.
Nutrition and its relationship to humans and their biological, social, and physical environment; current issues and concerns that affect the nutritional status of various population groups. Enroll Info: None
Requisites: Not open to students with credit for NUTR SCI 332
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 200 — THE PROFESSIONS OF DIETETICS AND NUTRITION
1 credit.
An overview of the nutrition and dietetics professions: career options; professional and portfolio development; professional references and resources; credentialing; and professional issues. Enroll Info: None
Requisites: Declared in Nutritional Sciences - Pre-Dietetics or Nutritional Sciences - Dietetics
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI/AGRONOMY/ENTOM 203 — INTRODUCTION TO GLOBAL HEALTH
3 credits.
Introduces students to global health concepts through multidisciplinary speakers dedicated to improving health through their unique training. It targets students with an interest in public health and those who wish to learn how their field impacts their global issues. Enroll Info: None
Requisites: None
Course Designation: Breadth - Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 289 — HONORS INDEPENDENT STUDY
1-2 credits.
Research work under direct guidance of a Nutritional Sciences faculty or instructional academic staff member. Enroll Info: Students are responsible for arranging the work and credits with the supervising instructor. Intended for students in the CALS Honors Program.
Requisites: Consent of instructor
Course Designation: Honors - Honors Only Courses (H)
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2006

NUTR SCI 299 — INDEPENDENT STUDY
1-3 credits.
Research work under direct guidance of a Nutritional Sciences faculty or instructional academic staff member. Enroll Info: Students are responsible for arranging the work and credits with the supervising instructor.
Requisites: Consent of instructor
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

NUTR SCI/AN SCI/DY SCI 311 — COMPARATIVE ANIMAL NUTRITION
3 credits.
Nutrients and their source, assimilation, function and requirement. Enroll Info: None
Requisites: BMOLCHEM 314, CHEM 341, 343, or BIOCHEM 501
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 332 — HUMAN NUTRITIONAL NEEDS
3 credits.
Biochemical and physiological basis of the nutritional requirements of humans. Enroll Info: None
Requisites: CHEM 103 and ZOOLOGY/BIOLOGY/BOTANY 151, ZOOLOGY/BIOLOGY 101, or BIOCORE 381
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI/A A E/AGRONOMY 350 — WORLD HUNGER AND MALNUTRITION
3 credits.
Hunger and poverty in developing countries and the United States. Topics include: nutrition and health, population, food production and availability, and income distribution and employment. Enroll Info: None
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 375 — SPECIAL TOPICS
1-4 credits.
Special topics on contemporary issues relevant to undergraduate students studying health and nutrition. Enroll Info: None
Requisites: None
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2020
NUTR SCI 377 — CULTURAL ASPECTS OF FOOD AND NUTRITION
3 credits.

Exploration of cultural competency and humility as a factor in reducing nutrition-related health disparities, and an opportunity to foster community resilience within the United States. Analysis of how personal cultural perspectives can shape biases and stereotypes that can widen the health disparity gap. Principles of food and culture utilized to compare cultural perspectives of health and well-being, including influences of spirituality and religiosity on food choice and dietary patterns. Includes content collaborators and guest speakers from a variety of communities, and identities. Enroll Info: None
Requisites: NUTR SCI 132 or 332
Course Designation: Ethnic St - Counts toward Ethnic Studies requirement
Breadth - Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Fall 2021

NUTR SCI 397 — INTRODUCTION TO EPIDEMIOLOGY
3 credits.

Provides undergraduate students of all disciplines with an introduction to the field of epidemiology. As the "detectives of public health," epidemiologists investigate the causes of disease, track outbreaks, screen and monitor the health of populations, and design studies to track health over time. Epidemiological research is used to identify groups at-risk for disease, guide public health programs and policies and generate hypotheses about the causes of diseases which can inform further research. Also examines association and causality, study design, and limitations to epidemiological evidence, drawing from real examples, both current and historical. Enroll Info: None
Requisites: Satisfied Quantitative Reasoning (QR) A requirement
Course Designation: Breadth - Either Social Science or Natural Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 399 — COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION
1-8 credits.

Internship under guidance of a Nutritional Sciences faculty or instructional academic staff member and internship site supervisor. Enroll Info: Students are responsible for arranging the work and credits with the Nutritional Sciences faculty or instructional academic staff member and the internship site supervisor.
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

NUTR SCI 400 — STUDY ABROAD IN NUTRITIONAL SCIENCES
1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. Enroll Info: None
Requisites: None
Repeatable for Credit: Yes, unlimited number of completions

NUTR SCI/INTER-AG 421 — GLOBAL HEALTH FIELD EXPERIENCE
1-4 credits.

Addresses a broad range of health topics including nutrition, primary health care, water and sanitation, climate change, sustainable agriculture, and economic development. These field experiences take place in sites around the world including locations in Africa, Asia, Latin America, Europe, and the United States. Engaged learning will include participation in applied public health activities and service learning projects with communities and partner organizations. Students will gain knowledge about health and disease and explore interdisciplinary approaches to health. Field experiences are designed to meet the requirement for the Undergraduate Certificate in Global Health. Enroll Info: Students who are not planning to complete the Certificate in Global Health may enroll as space permits.
Requisites: Consent of instructor
Course Designation: Sustain - Sustainability
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

NUTR SCI 431 — NUTRITION IN THE LIFE SPAN
3 credits.

Influence of nutrition on growth and development; physiological basis of nutritional requirements throughout the life span, including the relationship of food habits and nutrition to selected chronic diseases; principles of nutritional intervention in community programs. Enroll Info: None
Requisites: Junior standing, grade of C in ANAT&PHY 335 and grad of C in NUTR SCI 332
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 499 — CAPSTONE IN NUTRITION
2 credits.

Capstone in the nutritional sciences, emphasis is on the integration of nutritional knowledge and the interpretation and application of nutrition-oriented research. Enroll Info: None
Requisites: NUTR SCI 431 and NUTR SCI/BIOCHEM 510 or concurrent enrollment
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2014
NUTR SCI 500 — UNDERGRADUATE CAPSTONE SEMINAR LABORATORY
1 credit.

Current topics in Nutritional Sciences and undergraduate research presentations. Enroll Info: None
Requisites: NUTR SCI 431 and NUTR SCI/BIOCHEM 510 or concurrent enrollment
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI/BIOCHEM 510 — NUTRITIONAL BIOCHEMISTRY AND METABOLISM
3 credits.

Lectures in nutrition with a substantial background in biochemistry. Emphasis on biochemical and physiological fundamentals of nutrition. Discussion of protein, fat, carbohydrate, energy, minerals and vitamins and their roles and interrelationships in nutrition and metabolism. Enroll Info: None
Requisites: BIOCHEM 301, 501, 507, BMOLCHEM 503, or graduate/professional standing
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI/KINES 525 — NUTRITION IN PHYSICAL ACTIVITY AND HEALTH
3 credits.

Provides both scientific knowledge and application of nutrition related to exercise, health, and sports. Enroll Info: None
Requisites: ANAT&PHY 335 or PHYSIOL 335
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 540 — COMMUNITY NUTRITION PROGRAMS AND POLICY ISSUES
1 credit.

Students will increase their understanding of community-based nutrition needs, intervention programs and policy issues in the U.S. Written assignments will demonstrate students’ positions on related issues. Enroll Info: None
Requisites: NUTR SCI 431 or graduate/professional standing
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 550 — NUTRITION AND COUNSELING FOR ATHLETIC PERFORMANCE
2 credits.

Presents foundational principles and evidenced based recommendations for fueling active bodies and how proper nutrition relates to weight management, muscle development, recovery and performance. Integrates counseling methods and techniques used for working with active populations through readings, learning activities and expert guest lecturers. Features reading and interpreting scientific studies related to sports nutrition and interdisciplinary guest speakers representing sport performance and wellness programs. Enroll Info: None
Requisites: NUTRI SCI 332
Repeatable for Credit: No
Last Taught: Fall 2021

NUTR SCI 600 — INTRODUCTORY SEMINAR IN NUTRITION
1 credit.

Presentation of reports from current journals of nutritional sciences. Enroll Info: None
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2020

NUTR SCI/BIOCHEM 619 — ADVANCED NUTRITION: INTERMEDIARY METABOLISM OF MACRONUTRIENTS
3 credits.

Discuss metabolic control; gastrointestinal physiology, nutrient absorption; molecular, cellular, organismal aspects of glucose transport, metabolism, regulation; fuel sensing; molecular regulation of fatty acid, lipid metabolism; cellular, organismal aspects of protein metabolism; hormonal control of metabolism; experimental approaches for studying metabolism. Enroll Info: None
Requisites: NUTRI SCI 510, BIOCHEM 507, 508, or BMOLCHEM 503 or graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI/POP HLTH 621 — INTRODUCTION TO NUTRITIONAL EPIDEMIOLOGY
1 credit.

Techniques used to evaluate relationships of diet to health and disease in human populations; integration of knowledge gained with results of animal and clinical studies toward understanding dietary risk or protective factors for disease. Includes advanced diet assessment and basic epidemiologic approaches. Enroll Info: None
Requisites: STAT 301 and NUTR SCI 332, or graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022
NUTR SCI 623 — ADVANCED NUTRITION: MINERALS
1 credit.
Topics discussed in regard to minerals are: metabolic roles; absorption, excretion, transport and cellular metabolism; nutritional and toxicological standards for humans and animal models; bioavailability; genetic interactions; and research methodologies. Enroll Info: None
Requisites: Graduate/professional standing, NUTR SCI/BIOCHEM 510 and ANAT&PHY 335 or concurrent enrollment (or PHYSIOL 335 prior to Fall 2018)
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2020

NUTR SCI 625 — ADVANCED NUTRITION: OBESITY AND DIABETES
1 credit.
Physiology, biochemistry and genetics of human obesity and diabetes. Critical review of current research on their etiology and treatment. Enroll Info: NUTR SCI 619 or concurrent registration, and ANAT&PHY 335 or equivalent
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

NUTR SCI/AN SCI 626 — EXPERIMENTAL DIET DESIGN
1 credit.
Discuss nutrient requirements, composition of ingredients used to meet requirements and the mathematical steps involved in diet formulation with emphasis on research animals and human subjects. Enroll Info: None
Requisites: Graduate/professional standing, STATS 301 and (NUTR SCI/BIOCHEM 510 or concurrent enrollment)
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

NUTR SCI 627 — ADVANCED NUTRITION: VITAMINS
1 credit.
Scientific knowledge of the metabolic functions, metabolism and nutritional requirements for some of the water soluble vitamins and all of the fat soluble vitamins. Enroll Info: None
Requisites: Graduate/professional standing, NUTR SCI/BIOCHEM 510 and ANAT&PHY 335 or concurrent enrollment (or PHYSIOL 335 prior to Fall 2018)
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

NUTR SCI 631 — CLINICAL NUTRITION I
3 credits.
Introduction to the nutrition care process, including pathology, medical nutrition therapy, and nutrition support in relation to alterations in nutrition and metabolism that accompany disease states. Research related to therapeutic nutrition. Enroll Info: None
Requisites: NUTR SCI 332, 431, and (BIOCHEM 301 or 501)
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

NUTR SCI 632 — CLINICAL NUTRITION II
3 credits.
Advanced topics surrounding pathology, medical nutrition therapy, and nutrition support in relation to alterations in nutrition and metabolism that accompany disease stated. Research related to therapeutic nutrition. Enroll Info: None
Requisites: NUTR SCI 631
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 641 — APPLICATIONS IN CLINICAL NUTRITION I
1 credit.
Clinical problem solving, assessing medical record data, evaluating food intake, planning modified diets, and reviewing medical and research literature related to certain diseases/conditions. Develops critical thinking, teamwork and communication skills needed by the dietetic intern and dietitian. Enroll Info: None
Requisites: Declared in a Nutritional Sciences undergraduate program and previous or concurrent enrollment in NUTR SCI 631
Repeatable for Credit: No
Last Taught: Fall 2021

NUTR SCI 642 — APPLICATIONS IN CLINICAL NUTRITION II
1 credit.
Clinical problem solving, assessing medical record data, evaluating food intake, planning modified diets, and reviewing medical and research literature related to certain disease states/conditions. Develops critical thinking, teamwork and communication skills needed by the dietetic intern and dietitian. Enroll Info: None
Requisites: Declared in a Nutritional Sciences undergraduate programs and concurrent enrollment in NUTR SCI 632
Repeatable for Credit: No
Last Taught: Spring 2022
### NUTR SCI/BIOCHEM 645 — MOLECULAR CONTROL OF METABOLISM AND METABOLIC DISEASE
3 credits.

Examination of various physiological states and how they affect metabolic pathways. Discussion of a number of special topics related to the unique roles of various tissues and to metabolic pathways in disease states, including adipocyte biology, beta-cell biology, epigenetics, inflammation, and aging related diseases. Enroll Info: None

**Requisites:** BIOCHEM 501, 508 or graduate/professional standing
**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req
**Level:** Advanced
**L&S Credit:** Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2021

### NUTR SCI 650 — ADVANCED CLINICAL NUTRITION: CRITICAL CARE AND NUTRITION SUPPORT
3 credits.

Advanced study of the metabolic demands of critical illness and how these alterations influence the nutritional needs of critical care patients in various disease states. Using an evidence-based medical approach, students will assess nutrient requirements and determine best methods of nutrient delivery in various disease states. Anthropometric measures and hematological indices will be incorporated to assess nutritional status and monitor response to nutritional therapies. Enroll Info: None

**Requisites:** Declared in Clinical Nutrition masters degree program
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** No

**Last Taught:** Spring 2022

### NUTR SCI 651 — ADVANCED CLINICAL NUTRITION - PEDIATRICS
3 credits.

Pediatric nutritional requirements with emphasis on issues related to evidence-based medical nutrition therapy. Enroll Info: None

**Requisites:** Declared in Clinical Nutrition masters degree program
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** No

**Last Taught:** Spring 2022

### NUTR SCI 652 — ADVANCED NUTRITION COUNSELING AND EDUCATION
3 credits.

Application of current theories and techniques of counseling and education to the field of nutrition and dietetics. Practical application of communication techniques, client-centered counseling methods, motivational interviewing, learning theories and behavior change techniques, and factors affecting eating patterns. Nutrition psychology and the psychoanalytic approach to nutrition counseling will be emphasized in the class. Principles of group counseling/facilitation and instructional material/media design. Enroll Info: None

**Requisites:** Declared in Clinical Nutrition masters degree program
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** No

**Last Taught:** Summer 2021

### NUTR SCI 653 — CLINICAL NUTRITION RESEARCH
3 credits.

Research use and development as it applies to clinical nutrition practice: effective use of the literature in evidence based practice and research development, problem development, methodology, analysis and reporting of results and conclusions. Enroll Info: None

**Requisites:** Declared in Clinical Nutrition masters degree program
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** No

**Last Taught:** Spring 2022

### NUTR SCI 655 — NUTRITION IN AGING
3 credits.

Interpret research relating to nutrition during the aging process. Gain an understanding of acute and chronic conditions in older persons, both in hospital and the community. Examine the impact of aging on organ systems and address the relationship among physiologic aging, nutrition, and disease. Enroll Info: None

**Requisites:** Declared in Clinical Nutrition MS or Clinical Nutrition Capstone Certificate
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** No

### NUTR SCI 657 — MANAGEMENT IN DIETETICS
3 credits.

Evaluate research and apply management principles in dietetics practice. Enhance leadership and management skills for settings such as hospitals, long-term care facilities, schools, universities, prisons, and other locations where food and nutrition services are administered. Enroll Info: None

**Requisites:** Declared in Clinical Nutrition MS or the Capstone Certificate in Clinical Nutrition
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** No

### NUTR SCI 670 — NUTRITION AND DIETETICS PRACTICUM I
3 credits.

The first of two supervised practice experiences in nutrition and dietetics at University of Wisconsin Hospital and Clinics and affiliated sites. Dietetic interns apply their academic training, furthering their competency in: clinical nutrition, food systems management, research, and community experiences. Enroll Info: None

**Requisites:** Declared in Capstone Certificate in Clinical Nutrition - Dietetic Internship
**Repeatable for Credit:** No

**Last Taught:** Fall 2021
NUTR SCI 671 — NUTRITION AND DIETETICS PRACTICUM II
3 credits.

The second of two supervised practice experiences in nutrition and dietetics at University of Wisconsin Hospital and Clinics and affiliated sites. Dietetic interns apply their academic training, furthering their competency in: clinical nutrition, food systems management, research, and community experiences. Enroll Info: None
Requisites: Declared in Capstone Certificate in Clinical Nutrition - Dietetic Internship
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI/PHM PRAC 672 — HERBALS, HOMEOPATHY, AND DIETARY SUPPLEMENTS
2-3 credits.

Covers regulations and clinical science regarding the use of herbals, homeopathic remedies, and dietary supplements, focusing on peer-reviewed studies and integration with allopathic drugs; includes discussion of marketing issues. Enroll Info: None
Requisites: (PHM SCI 432 or BIOCHEM 501 or BMOLCHEM 314) and PHYSIOL 335
Repeatable for Credit: No
Last Taught: Spring 2016

NUTR SCI 681 — SENIOR HONORS THESIS
2-4 credits.

Individual study and research for students completing theses under direct guidance of a Nutritional Science faculty or instructional academic staff member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Honors - Honors Only Courses (H)
Repeatable for Credit: No
Last Taught: Fall 2016

NUTR SCI 682 — SENIOR HONORS THESIS
2-4 credits.

Individual study and research for students completing theses under direct guidance of a Nutritional Science faculty or instructional academic staff member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Honors - Honors Only Courses (H)
Repeatable for Credit: No
Last Taught: Spring 2017

NUTR SCI 691 — SENIOR THESIS-NUTRITION
1-4 credits.

Individual study and research for students completing theses under direct guidance of a Nutritional Science faculty or instructional academic staff member. Enroll Info: None
Requisites: Consent of instructor
Repeatable for Credit: No
Last Taught: Fall 2021

NUTR SCI 692 — SENIOR THESIS
1-4 credits.

Individual study and research for students completing theses under direct guidance of a Nutritional Science faculty or instructional academic staff member. Enroll Info: None
Requisites: Consent of instructor
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 699 — SPECIAL PROBLEMS
1-3 credits.

Directed study under direct guidance of a Nutritional Science faculty member or instructional academic staff member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

NUTR SCI 710 — HUMAN ENERGY METABOLISM
2 credits.

Requisites: Declared in Clinical Nutrition masters degree program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

NUTR SCI 711 — PERSONALIZED NUTRITION: GENETICS, GENOMICS, AND METAGENOMICS
1 credit.

Genetic factors that modulate the relationships between diet, health, and disease risks, including the effects of differences in our genetic makeup (Nutrigenetics), the regulation of gene expression by nutrients and dietary patterns (Nutrigenomics), and the interactions between diet, gut microbiome, and human hosts (Metagenomics). Enroll Info: None
Requisites: Declared in Clinical Nutrition masters degree program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021
NUTR SCI 715 — MICRONUTRIENTS: HUMAN PHYSIOLOGY AND DISEASE
3 credits.

Micronutrients explores the function of vitamins and essential mineral nutrients from the biochemical and nutritional perspective with emphasis on issues essential for clinical nutrition. Enroll Info: None
Requisites: Declared in Clinical Nutrition masters degree program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 720 — ADVANCED NUTRITION ASSESSMENT
1 credit.

Advanced skills and evolving methods of nutritional assessment. Measurement and interpretation of physical examination and laboratory parameters. Diagnosing malnutrition and nutrient deficiencies, including clinical characteristics used to identify and label the degree of malnutrition. Enroll Info: None
Requisites: Declared in Clinical Nutrition masters degree program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 721 — NUTRITION INFORMATICS
1 credit.

The emerging role of the electronic storage, retrieval and dissemination of food and nutrition related data and the effective use of information for problem solving and decision-making for the dietetics professional. Enroll Info: None
Requisites: Declared in Clinical Nutrition masters degree program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

NUTR SCI 725 — ADVANCED COMMUNITY NUTRITION
1 credit.

Community nutrition as it applies to clinical nutrition practice: programs, resources and issues supporting clinical nutrition practice in the community. Enroll Info: None
Requisites: Declared in Clinical Nutrition masters degree program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 726 — NUTRITIONAL MANAGEMENT OF GASTROINTESTINAL DISORDERS
3 credits.

Highlights the important interaction between nutrition and the human gastrointestinal tract (GI). Includes exploration of various gastrointestinal related disorders and diseases, and covers contemporary issues, current research, and real-life examples applicable to the field of nutrition, and nutrition providers. Includes instruction from content collaborators and GI nutrition experts. Apply the pathophysiology of GI disorders and disease, deconstruct differential diagnoses; and describe current medical management and dietary requirements of an individual and translate this into appropriate medical nutritional therapy. Enroll Info: None
Requisites: Declared in Clinical Nutrition MS or the Capstone Certificate in Clinical Nutrition
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

NUTR SCI 731 — RESEARCH IN PROGRESS SEMINAR
1 credit.

Seminars on topics in nutritional sciences of interest to Nutritional Sciences dissertators and reports on doctoral student research. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

NUTR SCI 745 — GRANT WRITING FOR NUTRITIONAL SCIENCES RESEARCH
2 credits.

Interactively address the knowledge, approach, and professional skills (conceptual, technical, and writing) required to create a successful grant proposal and initiate a career in research. Format is focused on the planning and completion of NIH-style grant proposals. Lectures and workshops will address the development of long term goals, hypotheses, and specific aims, as well as research design and methodology. Basic guidelines and approaches to proposal review and scoring are also covered. Several key components of a grant proposal will be generated using an iterative and peer-supported process. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022
**NUTR SCI 750 — ADVANCED SPORTS NUTRITION**

2 credits.

Integration of foundational nutrition and exercise physiology principles with sports nutrition concepts from a clinical perspective. Evaluation of the unique nutritional requirements for athletes/active individuals on body composition, performance, and timing of nutrients and hydration related to pre-activity, during activity, and post-activity recovery. Application of these concepts with clinical conditions requiring specialized sports nutrition approaches such as diabetes, gastrointestinal disorders, eating disorders, micronutrients deficiencies and life cycle populations (youth/adolescent, pregnant and masters’ athletes). Analysis of sports nutrition research to utilize evidenced-based practice and recommendations around ergogenic aids-supplements and other sports nutrition topics. Enroll Info: None

**Requisites:** Declared in Clinical Nutrition, M.S.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**NUTR SCI 799 — PRACTICUM IN NUTRITIONAL SCIENCES TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance. Enroll Info: None

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2020

**NUTR SCI 875 — SPECIAL TOPICS**

1-4 credits.

Special topics on contemporary issues relevant to graduate students studying health and nutrition. Enroll Info: None

**Requisites:** Graduate/professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2022

**NUTR SCI 881 — SEMINAR-TOPICS IN HUMAN AND CLINICAL NUTRITION**

1 credit.

Varied topics in clinical and human nutrition. Enroll Info: None

**Requisites:** NUTR SCI 600

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2022

**NUTR SCI/BIOCHEM 901 — SEMINAR-NUTRITION AND METABOLISM (ADVANCED)**

1 credit.

Presentation of original research results; discussion of recent articles in animal metabolism and nutrition. Enroll Info: None

**Requisites:** Graduate/professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2021

**NUTR SCI 931 — SEMINAR-NUTRITION**

1 credit.

Seminar features expert presentations of current research and issue-based applications that represent the breadth of nutritional sciences; topics investigate problems "from molecules to communities". Enroll Info: None

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2022

**NUTR SCI 991 — RESEARCH NUTRITION**

1-12 credits.

Independent research with assigned instructor. Research projects determined by agreement between instructor and student. Enroll Info: None

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2022

**NUTR SCI 993 — INDEPENDENT STUDY IN NUTRITION**

1-12 credits.

Independent research with assigned instructor. Research projects determined by agreement between instructor and student. Enroll Info: None

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015