

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.

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

Repeatable for Credit: No

Last Taught: Summer 2023

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.

Requisites: Declared in Nutritional Sciences BS-Nutrition and Dietetics or classified as Pre-Nutritional Sciences BS-Nutrition and Dietetics

Repeatable for Credit: No

Last Taught: Spring 2023

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.

Requisites: None

Course Designation: Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2023

NUTR SCI 289 – HONORS INDEPENDENT STUDY

1-2 credits.

Research work under direct guidance of a Nutritional Sciences faculty or instructional academic staff member. 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. 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 2023

NUTR SCI/AN SCI/DY SCI 311 – COMPARATIVE ANIMAL NUTRITION

3 credits.

Nutrients and their source, assimilation, function and requirement.

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 2023

NUTR SCI 332 – HUMAN NUTRITIONAL NEEDS

3 credits.

Biochemical and physiological basis of the nutritional requirements of humans.

Requisites: (CHEM 103, 109, or 115) 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 2023

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.

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

Repeatable for Credit: No

Last Taught: Summer 2023

NUTR SCI 375 – SPECIAL TOPICS

1-4 credits.

Special topics on contemporary issues relevant to undergraduate students studying health and nutrition.

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.

Requisites: None**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

Repeatable for Credit: No**Last Taught:** Summer 2023**NUTR SCI 379 – 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.

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:** Summer 2023**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. 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:** Fall 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. Enrollment in a UW-Madison resident study abroad program.

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**NUTR SCI/INTER-AG 421 – GLOBAL HEALTH FIELD EXPERIENCE**

1-4 credits.

Specialized educational experiences that address a broad range of global health topics through interdisciplinary approaches to health and include participation in applied public health activities or service learning projects with communities and partner organizations.

Requisites: None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2023**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.

Requisites: Junior standing, grade of C in ANAT&PHY 335 and grade 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:** Summer 2023**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.

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.

Requisites: NUTR SCI 431 and NUTR SCI/BIOCHEM 510 or concurrent enrollment**Repeatable for Credit:** No**Last Taught:** Spring 2023

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.

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 2023

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.

Requisites: ANAT&PHY 335

Repeatable for Credit: No

Last Taught: Spring 2023

NUTR SCI 540 – COMMUNITY NUTRITION AND HEALTH EQUITY

3 credits.

The foundations and practice of community nutrition and health equity. Factors and resources affecting community nutrition programs and delivery of nutrition and education programs to diverse communities and vulnerable populations.

Requisites: NUTR SCI 431 or concurrent enrollment

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 2023

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.

Requisites: NUTRI SCI 332

Repeatable for Credit: No

Last Taught: Fall 2022

NUTR SCI 600 – INTRODUCTORY SEMINAR IN NUTRITION

1 credit.

Presentation of reports from current journals of nutritional sciences.

Requisites: 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: Fall 2022

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.

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 2023

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.

Requisites: 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.

Requisites: Graduate/professional standing

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

Repeatable for Credit: No

Last Taught: Fall 2022

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.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2023**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.

Requisites: Graduate/professional standing**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.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2023**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.

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 2022**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.

Requisites: NUTR SCI 631**Repeatable for Credit:** No**Last Taught:** Spring 2023**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.

Requisites: Declared in Nutritional Science BS or BS-Dietetics and Nutrition and NUTR SCI 631 or concurrent enrollment**Repeatable for Credit:** No**Last Taught:** Fall 2022**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.

Requisites: Declared in Nutritional Science BS or BS-Dietetics and Nutrition and NUTR SCI 631 or concurrent enrollment**Repeatable for Credit:** No**Last Taught:** Spring 2023**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.

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 2022**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.

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:** Fall 2022

NUTR SCI 651 – ADVANCED CLINICAL NUTRITION - PEDIATRICS

3 credits.

Pediatric nutritional requirements with emphasis on issues related to evidence-based medical nutrition therapy.

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 2023

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.

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: Summer 2023

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.

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: Summer 2023

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.

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: Fall 2022

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.

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: Summer 2023

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.

Requisites: Declared in Clinical Nutrition MS or the Capstone Certificate in Clinical Nutrition

Repeatable for Credit: No

Last Taught: Fall 2022

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.

Requisites: Declared in Clinical Nutrition MS or the Capstone Certificate in Clinical Nutrition

Repeatable for Credit: No

Last Taught: Spring 2023

NUTR SCI 675 – NUTRACEUTICALS FOR HEALTHCARE PROFESSIONALS

1 credit.

Overview of the principles and processes necessary to evaluate and utilize bioactive food components and dietary supplements in practice, including federal regulations. Current scientific evidence supporting or refuting the biochemical and physiological efficacy of select bioactive food components and dietary supplements will be addressed.

Requisites: ANAT&PHY 335 and (BIOCHEM 301 or 501) or declared in the Capstone Certificate in Clinical Nutrition or Clinical Nutrition MS

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

Repeatable for Credit: No

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.

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.

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.

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.

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.

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 2023**NUTR SCI 710 – HUMAN ENERGY METABOLISM**

2 credits.

Fundamentals in human macronutrient metabolism and its role in health and disease. Biochemistry and physiology of macronutrient digestion, anabolism, and catabolism. Disorders of energy metabolism (obesity, type 1 and type 2 diabetes, starvation). Metabolic effects of fiber and the microbiota. Body composition and energy assessment. Taught in an online format using lectures, guided readings, and projects.

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:** Summer 2023**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).

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:** Summer 2023**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.

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 2023**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.

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:** Summer 2023

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.

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: Summer 2023

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.

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 2023

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.

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: Summer 2023

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.

Requisites: Consent of instructor

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

Repeatable for Credit: No

Last Taught: Spring 2023

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.

Requisites: Consent of instructor

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

Repeatable for Credit: No

Last Taught: Spring 2023

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.

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: Summer 2023

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.

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.

Requisites: Graduate/professional standing

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

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Summer 2023

NUTR SCI 881 – SEMINAR-TOPICS IN HUMAN AND CLINICAL NUTRITION

1 credit.

Varied topics in clinical and human nutrition.

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 2023

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.

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 2022

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".

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 2023

NUTR SCI 991 – RESEARCH NUTRITION

1-12 credits.

Independent research with assigned instructor. Research projects determined by agreement between instructor and student.

Requisites: Consent of instructor

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

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Summer 2023

NUTR SCI 993 – INDEPENDENT STUDY IN NUTRITION

1-12 credits.

Independent research with assigned instructor. Research projects determined by agreement between instructor and student.

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