

NUTRITIONAL SCIENCES

Courses

NSCI 2111 Professional Careers in Nutritional Sciences

Prerequisites: For students interested in Allied Health, Community Nutrition or Nutrition and Exercise or consent of instructor.

Description: Career opportunities in health professions. Roles and responsibilities of health care professionals. Routes to professional memberships and current issues in professionalism. Previously offered as FNIA 2111.

Credit hours: 1

Contact hours: Lecture: 1 Contact: 1

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 2112 Foods of the African Diaspora: Chronology, Evolution and Impact

Description: An exploration of the evolution of African American foodways and their physical health impacts within the historical contexts of slavery, emancipation, cultural development, religion, and traditional health beliefs.

Credit hours: 2

Contact hours: Lecture: 2 Contact: 2

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 2114 Principles of Human Nutrition (N)

Description: Functions of the nutrients in human life processes. Nutrient relationship to health as a basis for food choices. Open to all University students. Previously offered as NSCI 2123 and FNIA 1113.

Credit hours: 4

Contact hours: Lecture: 3 Contact: 4 Other: 1

Levels: Undergraduate

Schedule types: Discussion, Combined lecture & discussion, Lecture

Department/School: Nutritional Sciences

General Education and other Course Attributes: Natural Sciences

NSCI 2211 Professional Careers in Dietetics

Prerequisites: NSCI students or consent of instructor.

Description: Career opportunities in Dietetics. Roles and responsibilities of Dietitians. Routes to professional memberships and current issues in professionalism.

Credit hours: 1

Contact hours: Lecture: 1 Contact: 1

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 2311 Introduction to Public Health Nutrition

Description: Overview of Public Health Nutrition with an emphasis on how biological, social, economic, and political factors affect nutrition and health status of populations.

Credit hours: 1

Contact hours: Lecture: 1 Contact: 1

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 2412 Introduction to Nutrition & Food Literacy

Prerequisites: NSCI 2114 or consent of instructor.

Description: Application of nutrition education principles and public health approaches for planning, purchasing, preparing and preserving healthy affordable foods to improve health outcomes.

Credit hours: 2

Contact hours: Lecture: 1 Lab: 3 Contact: 4

Levels: Undergraduate

Schedule types: Lab, Lecture, Combined lecture and lab

Department/School: Nutritional Sciences

NSCI 2850 Special Topics in Nutritional Sciences

Description: Study of specific consumer education issues or topics in nutritional sciences. Offered for variable credit, 1-3 credit hours, maximum of 4 credit hours.

Credit hours: 1-3

Contact hours: Contact: 1-3 Other: 1-3

Levels: Undergraduate

Schedule types: Independent Study

Department/School: Nutritional Sciences

NSCI 3011 Nutrition and Evidence-based Practice I

Prerequisites: NSCI 2114 and STAT 2013 or STAT 2023.

Description: Understanding basic research designs and methodologies, ethics in research, and the use of research in the development of evidence-based recommendations for healthy individuals, applying statistics, and interpreting data in nutrition research.

Credit hours: 1

Contact hours: Lecture: 1 Contact: 1

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 3021 Nutrition and Evidence-based Practice II

Prerequisites: NSCI 3011 and BIOL 3204.

Description: Understanding research focused on pathophysiology of chronic disease and the role of nutrition in the prevention and treatment of these diseases. Course builds on an understanding of physiology and of nutrition research from BIOL 3204 and NSCI 3011. Ethics in research.

Credit hours: 1

Contact hours: Lecture: 1 Contact: 1

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 3133 Science of Food Preparation

Prerequisites: HTM 1113 or NSCI 3993 and NSCI 2114, and CHEM 3013.

Description: Scientific principles underlying functions of food ingredients, recipe/menu modification, diet management for disease states and food safety.

Credit hours: 3

Contact hours: Lecture: 2 Lab: 3 Contact: 5

Levels: Undergraduate

Schedule types: Lab, Lecture, Combined lecture and lab

Department/School: Nutritional Sciences

NSCI 3223 Nutrition Across the Life Span**Prerequisites:** NSCI 2114 or equivalent.**Description:** Nutritional needs and dietary concerns of individuals from conception through old age. Previously offered as NSCI 4223 and FNIA 4223.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Undergraduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 3312 Nutrition Care Process****Prerequisites:** NSCI 2114 and NSCI 3223 and BIOL 3204, Option in DIET or consent of instructor.**Description:** Familiarity and application of the Nutrition Care Process - a systematic approach to providing quality nutrition care. The student will also be introduced to and be able to apply medical terminology in the Nutrition Care process.**Credit hours:** 2**Contact hours:** Lecture: 2 Contact: 2**Levels:** Undergraduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 3440 Nutritional Sciences Pre-Professional Experience****Prerequisites:** HS 1112 or HS 3112 (or concurrent).**Description:** Student-arranged, instructor-approved, job shadowing, work or volunteer experience in professional settings related to the Nutritional Sciences option. Forty hours of experience required per credit hour. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.**Credit hours:** 1-3**Contact hours:** Contact: 1-3 Other: 1-3**Levels:** Undergraduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences**NSCI 3543 Food and the Human Environment (IS)****Description:** Impact of the various factors that affect food availability, production, processing, distribution and consumption of food in the world. International cultures and foods. Challenges of and solutions to the world food crisis. Previously offered as FNIA 3543.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Undergraduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**General Education and other Course Attributes:** International Dimension, Social & Behavioral Sciences**NSCI 3733 Environmental Nutrition****Prerequisites:** NSCI 2114.**Description:** Evidence-based examination of agricultural production, food systems, and sustainability on food, nutritional quality, and societal health, from harvest to health.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Undergraduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 3813 Nutrition Assessment and Counseling Skills****Prerequisites:** NSCI 2114 and NSCI 3223 and HDFS 2113 and PSYC 1113; or consent of instructor.**Description:** Theory and practice of counseling and interviewing skills as applied to nutrition counseling. Collection and interpretation of anthropometric, biochemical and dietary data necessary to determine nutritional status. Previously offered as NSCI 3812.**Credit hours:** 3**Contact hours:** Lecture: 2 Lab: 2 Contact: 4**Levels:** Undergraduate**Schedule types:** Lab, Lecture, Combined lecture and lab**Department/School:** Nutritional Sciences**NSCI 3993 Culinary Principles in Nutrition****Prerequisites:** Option in Dietetics or consent of instructor.**Description:** Familiarity and application of techniques and theories of food preparation including use and selection of equipment, sanitation and quality controls.**Credit hours:** 3**Contact hours:** Lecture: 2 Lab: 3 Contact: 5**Levels:** Undergraduate**Schedule types:** Lab, Lecture, Combined lecture and lab**Department/School:** Nutritional Sciences**NSCI 4021 Nutrition and Evidence-based Practice III****Prerequisites:** NSCI 3011 and NSCI 3021.**Description:** In-depth study of major controversial issues in the field of nutrition. Course builds on understanding of nutrition research from NSCI 3011 and 3021. Review and analysis of current research. Ethics in research.**Credit hours:** 1**Contact hours:** Lecture: 1 Contact: 1**Levels:** Undergraduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 4023 Nutrition in the Pathophysiology of Chronic Disease****Prerequisites:** NSCI 2114, NSCI 3011, NSCI 3223 and BIOL 3204.**Description:** Analysis of the role of dietary bioactive components in health maintenance and chronic disease prevention. Communication of evidence-based nutrition information to the public.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Undergraduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 4111 Professional Preparation for Careers in Dietetics****Prerequisites:** NSCI 4854 or concurrent, or consent of instructor.**Description:** Preparation of supervised practice applications and supporting documents. Options for professional credentials, graduate school, and careers. Professional issues in dietetics.**Credit hours:** 1**Contact hours:** Lecture: 1 Contact: 1**Levels:** Undergraduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences

NSCI 4123 Human Nutrition and Metabolism I

Prerequisites: NSCI 2114 and CHEM 3013 or CHEM 3053 and BIOL 3204 or consent of instructor.

Description: Examine the chemical characteristics and functions of macronutrients; digestion, absorption, transport and metabolism of macronutrients; control of intermediary metabolism and metabolic pathways. No credit for students with degree credit in NSCI 5303.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 4133 Nutrition for Exercise and Sport

Prerequisites: NSCI 2114.

Description: Application of principles of nutrient metabolism as they relate to physical activity, sport and health. Strongly recommend a background including NSCI 4123 and BIOC 3653.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 4143 Human Nutrition and Metabolism II

Prerequisites: NSCI 4123 or consent of instructor.

Description: Chemical characteristics, absorption, transport, functions, requirements and health implications of vitamins and minerals. Discussion of phytochemicals and supplements in relation to health maintenance and disease prevention. No credit for students with degree credit in NSCI 5353.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 4331 Quantity Food Production Practicum

Prerequisites: NSCI 2114; and NSCI 3993 or HTM 1113/HTM 1114.

Restricted to NSCI majors.

Description: Observation and practice in real-life-quantity food production settings. Students will need immunizations, TB tests, and background checks completed before the semester of enrollment in the course.

Credit hours: 1

Contact hours: Lab: 3 Contact: 3

Levels: Undergraduate

Schedule types: Lab

Department/School: Nutritional Sciences

NSCI 4373 Principles of Nutrition Education and Behavior Change

Prerequisites: NSCI 2114 and NSCI 3021 and NSCI 3223 or consent of instructor.

Description: Analysis of various methods, strategies, theories, resources and evaluation methods for nutrition education. Principles of behavior change and effective nutrition counseling. Overview of public health nutrition programs. Previously offered as FNIA 4373.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 4573 Management in Dietetics

Prerequisites: ACCT 2103 or ACCT 2003; and NSCI 3993 or HTM 1113 or HTM 1114.

Description: Management practices in the field of dietetics including program, clinical and food systems management.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

Additional Fees: Nutritional Sci Consummable fee of \$20 applies.

NSCI 4632 Community Nutrition I

Prerequisites: NSCI 2114 and NSCI 3223; or consent of instructor.

Description: Application of nutrition epidemiological, environmental and program assessment practices in community nutrition settings. Field work required.

Credit hours: 2

Contact hours: Lecture: 2 Contact: 2

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 4633 Community Nutrition II

Prerequisites: NSCI 2114 and NSCI 3223 and NSCI 4632; or consent of instructor.

Description: Application of nutrition, education, communication and evaluation principles to planning and implementing community nutrition programs and services. Field work required.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 4643 Capstone for Nutritional Sciences

Prerequisites: Senior standing in NSCI or consent of instructor.

Description: Integration of the body of knowledge in nutritional sciences. Examination of the research basis for defining and solving critical issues. Oral and written reports.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 4850 Special Unit Studies in Nutritional Sciences

Description: Special units of study in nutritional sciences. Offered for variable credit, 1-3 credit hours, maximum of 6 credit hours.

Credit hours: 1-3

Contact hours: Contact: 1-3 Other: 1-3

Levels: Undergraduate

Schedule types: Independent Study

Department/School: Nutritional Sciences

NSCI 4854 Medical Nutrition Therapy I

Prerequisites: NSCI 3223 and NSCI 3813 and NSCI 4123 or concurrent enrollment.

Description: Physiological and metabolic bases for dietary modifications in disease states. Previously offered as NSCI 4853.

Credit hours: 4

Contact hours: Lecture: 4 Contact: 4

Levels: Undergraduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 4864 Medical Nutrition Therapy II**Prerequisites:** NSCI 4854.**Description:** A continuation of NSCI 4854, Medical Nutrition Therapy I. Previously offered as NSCI 4863 and NSCI 4852.**Credit hours:** 4**Contact hours:** Lecture: 4 Contact: 4**Levels:** Undergraduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 4900 Honors Creative Component****Prerequisites:** College of Human Sciences Honors Program participation, senior standing.**Description:** Guided creative component for students completing requirements for College Honors in College of Human Sciences. Thesis, creative project or report under the direction of a faculty member in the major area, with second faculty reader and oral exam. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.**Credit hours:** 1-3**Contact hours:** Contact: 1-3 Other: 1-3**Levels:** Undergraduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences**General Education and other Course Attributes:** Honors Credit**NSCI 4913 Nutritional Epidemiology****Prerequisites:** Junior/Senior standing, STAT 2013 and HLTH 3723 and NSCI 2114, or consent of instructor.**Description:** Assessing the impact of nutrition and physical activity on health outcomes from an epidemiological perspective. Attention will be given to understanding the spectrum of study designs, including their benefits and drawbacks, used to examine this relationship.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Undergraduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5000 Master's Thesis****Prerequisites:** Consent of adviser.**Description:** Individual research and thesis that will fulfill the requirements for the master's degree. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.**Credit hours:** 1-6**Contact hours:** Contact: 1-6 Other: 1-6**Levels:** Graduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences**NSCI 5003 Diabetes Medical Nutrition Therapy****Prerequisites:** Admission to MS in Dietetics.**Description:** An in-depth study of diabetes management with emphasis in nutrition care. Topics will include diabetes pathophysiology, clinical care guidelines, basic pharmacology, clinical nutrition education and counseling strategies, and nutrition care planning. Web-based instruction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5011 Special Topics in Nutritional Sciences****Prerequisites:** NSCI graduate standing.**Description:** Orientation to graduate study and research in nutritional sciences.**Credit hours:** 1**Contact hours:** Lecture: 1 Contact: 1**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5012 Public Policy Development in Food, Nutrition and Related Programs****Description:** Rationale underlying governmental programs in food and nutrition and human sciences and assessment of the effectiveness of the programs.**Credit hours:** 2**Contact hours:** Lecture: 2 Contact: 2**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5013 Financial Management and Cost Controls in Dietetics****Prerequisites:** Admission to Great Plains IDEA online MS in Dietetics or consent of instructor.**Description:** An overview of accounting, cost controls, and financial management in food service. Special emphasis placed on understanding the topics and applying them to the theoretical and/or practical research for food service systems. Web-based instruction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5023 Advanced Nutrition in the Pathophysiology of Chronic Disease****Prerequisites:** NSCI 2114, NSCI 3011, NSCI 3223 and BIOL 3204.**Description:** In-depth study of the pathophysiology of chronic diseases and the role of dietary bioactive components in health maintenance and disease prevention.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5033 Macronutrients in Human Nutrition****Prerequisites:** Biochemistry and advanced human nutrition/metabolism, or consent of instructor.**Description:** Characteristics, biological roles, digestion, absorption, transport and metabolism of the macronutrients. Previously offered as NSCI 6023.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences

NSCI 5043 Micronutrients in Human Nutrition

Prerequisites: NSCI 5033 or consent of instructor.

Description: In-depth study of vitamins and minerals and their interrelationships in metabolism. Previously offered as NSCI 6123.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Graduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 5053 Functional Foods for Chronic Disease Prevention

Prerequisites: Admission to Great Plains IDEA MS in Dietetics or consent of instructor.

Description: Integrate and evaluate the regulatory principles, food science, nutrient science and nutritional metabolism for the development of functional foods, nutraceuticals, and dietary supplements for chronic disease prevention. Web-based instruction.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Graduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 5063 Food Culture

Prerequisites: Admission to MS in Dietetics.

Description: Survey of topics that affect how we perceive food in the modern world. Students examine food as a badge of cultural identity, a focus of media scrutiny and promotion, a symbol of religion, and a driver of technology.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Graduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 5073 Nutrition Therapy for Eating Disorders

Prerequisites: Admission to Great Plains IDEA MS in Dietetics. Medical Nutrition Therapy or consent of instructor.

Description: Study of eating disorders management and nutrition care. Topics will include eating disorders medical complications, clinical care guidelines, basic pharmacology, clinical nutrition education, nutrition care planning, psychology of eating disorders, team collaboration, and therapeutic modalities for nutrition counseling. Web-based instruction.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Graduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 5103 Grant Writing for the Professional

Prerequisites: Admission to the Great Plains IDEA online MS in Dietetics or consent of instructor.

Description: Grant proposal preparation experience including written critique of proposals and budget planning. Designed for the working professional. Web-based instruction.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Graduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 5123 Research Methods in Nutritional Sciences

Prerequisites: STAT 5013 or REMS 5953.

Description: Basic components of the research process and application of research methods to nutritional sciences.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Graduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 5133 Advanced Nutrition for Exercise and Sport

Prerequisites: Intro nutrition and biochemistry or consent of instructor.

Description: Advanced study of nutrition and metabolism relating to physical activity, sports and health.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Graduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 5203 Nutrition in Wellness

Prerequisites: Admission to the Great Plains IDEA online MS in Dietetics or consent of instructor.

Description: Wellness promotion through nutrition. Nutritional risk and protective factors will be examined as they relate to public health and individual nutrition. Web-based instruction.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Graduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 5210 Contemporary Issues in Food Service

Prerequisites: Admission to the Great Plains IDEA online MS in Dietetics program or consent of instructor.

Description: Contemporary issues in food service in dietetics; formulation of innovative solutions and processes to enhance effectiveness in the work place. Previously offered as NSCI 5211. Offered for variable credit, 3-9 credit hours, maximum of 9 credit hours.

Credit hours: 3-9

Contact hours: Contact: 3-9 Other: 3-9

Levels: Graduate

Schedule types: Independent Study

Department/School: Nutritional Sciences

NSCI 5213 Entrepreneurship in Food Service and Dietetics

Prerequisites: Admission to Great Plains IDEA online MS in Dietetics.

Description: An overview of entrepreneurship, characteristics of entrepreneurs and small business development within the context of food service and dietetics. Web-based instruction.

Credit hours: 3

Contact hours: Lecture: 3 Contact: 3

Levels: Graduate

Schedule types: Lecture

Department/School: Nutritional Sciences

NSCI 5223 Advanced Nutrition Across the Life Span**Prerequisites:** Admission to the Great Plains IDEA online MS in Dietetics.**Description:** Examination of the influence of normal physiological stresses on nutritional needs throughout the life span. Web-based instruction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5240 Contemporary Issues in Nutrition****Prerequisites:** Enrolled in Great Plains IDEA online MS in Dietetics.**Description:** Contemporary issues in nutrition. Web-based instruction. Offered for variable credit, 3-9 credit hours, maximum of 9 credit hours.**Credit hours:** 3-9**Contact hours:** Contact: 3-9 Other: 3-9**Levels:** Graduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences**NSCI 5303 Human Nutrition and Metabolism I****Prerequisites:** Introductory nutrition, organic chemistry, physiology or consent of instructor.**Description:** Examine the chemical characteristics and functions of macronutrients; digestion, absorption, transport and metabolism of macronutrients; control of intermediary metabolism and metabolic pathways. No credit for students with degree credit in NSCI 4123.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5313 Dietary and Herbal Supplements****Prerequisites:** Introductory nutrition and human physiology; or consent of instructor.**Description:** Explore the safety and efficacy of botanical/herbal and dietary supplements in health applications including dietary supplementation in the prevention and treatment of chronic disease.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5323 Nutrition and Physical Activity in Aging****Description:** Basic physiological changes during aging and their impact in health and disease. Successful aging with emphasis on physical activity and nutrition. Practical application to community settings. Web-based instruction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5353 Human Nutrition and Metabolism II****Prerequisites:** Introductory nutrition, organic chemistry, biochemistry and physiology.**Description:** Chemical characteristics, absorption, transport, functions, requirements and health implications of vitamins and minerals.

Discussion of phytochemicals and supplements in relation to health maintenance and disease prevention. No credit for students with degree credit in NSCI 4143.

Credit hours: 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5363 Maternal and Child Nutrition****Prerequisites:** NSCI 2114 or equivalent.**Description:** Nutritional needs and dietary concerns during pregnancy, lactation, infancy and childhood through puberty. Discussion of implications for nutrition intervention, family education and policy.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5373 Childhood Nutrition****Prerequisites:** Admission to MS in Dietetics.**Description:** The physiological, biochemical, and nutritional aspects of disease processes relevant to infants and children up to 18 years of age. Discussion of medical nutrition therapy for a variety of medical conditions found in this population including inborn errors of metabolism, food hypersensitivity, obesity, and diseases of the major organ systems.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5393 Nutrition and Aging****Prerequisites:** NSCI 2114 or equivalent.**Description:** Nutritional needs, and dietary concerns of the elderly. Implications for food and nutrition programs, policies, research and education.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5412 Dietetic Internship Management Practicum****Prerequisites:** Acceptance as a dietetic intern.**Description:** Supervised learning experiences in approved food service management for the achievement of performance requirements for entry level dietitians. Graded on a pass-fail basis. Previously offered as NSCI 5440.**Credit hours:** 2**Contact hours:** Contact: 2 Other: 2**Levels:** Graduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences

NSCI 5422 Dietetic Internship Clinical Practicum**Prerequisites:** Acceptance as a dietetic intern.**Description:** Supervised learning experiences in approved clinical for the achievement of performance requirements for entry level dietitians. Graded on a pass-fail basis.**Credit hours:** 2**Contact hours:** Contact: 2 Other: 2**Levels:** Graduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences**NSCI 5432 Dietetic Internship Community Nutrition Practicum****Prerequisites:** Acceptance as a dietetic intern.**Description:** Supervised learning experiences in approved community nutrition settings for the achievement of performance requirements for entry level dietitians. Graded on a pass-fail basis.**Credit hours:** 2**Contact hours:** Contact: 2 Other: 2**Levels:** Graduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences**NSCI 5443 Nutrigenomics and Nutrigenetics****Prerequisites:** Consent of Instructor.**Description:** Fundamental concepts of the ways in which nutrients regulate gene expression (nutrigenomics) and how an individual's genotype influences their nutrient requirements (nutrigenetics). Includes a focus on the role of lipids in nutritional genomics.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5453 Nutrition and Health Disparities****Prerequisites:** Lifespan nutrition; or Consent of Instructor.**Description:** Examination of nutrition and health disparities in the U.S. Identification of sociocultural determinants of health and their influence on nutrition and health outcomes. Exploration of interdisciplinary strategies to reduce nutrition and health disparities.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5473 Pediatric Clinical Nutrition****Prerequisites:** Admission to Great Plains IDEA MS in Dietetics or consent of instructor.**Description:** Examination of the physiological, biochemical and nutritional aspects of disease processes relevant to infants and children up to 18 years of age. Medical nutrition therapy for a variety of medical conditions found in this population including inborn errors of metabolism, food hypersensitivity, obesity and diseases of the major organ systems. Web-based instruction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5513 Public Health Nutrition****Prerequisites:** Admission to Great Plains IDEA MS in Dietetics or consent of Instructor.**Description:** Information and activities related to public health nutrition with focus on how nutrition research, policies and programs impact populations. Web-based instruction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5543 Obesity Prevention Across the Lifespan****Prerequisites:** Introductory and lifespan nutrition; or consent of instructor.**Description:** Obesity in the population from childhood to the adult age groups. Examination of the impact of obese conditions on disease development throughout the life span. Critical analysis of prevention efforts and interventions used in the behavioral and clinical management of overweight and obese individuals in community and clinical settings.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5553 Global Nutrition and Food Security****Description:** Advanced study of the magnitude, causes, and nature of hunger and under-nutrition in low income countries; emphasis on programs, policies and planning directed toward alleviating hunger and malnutrition.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5563 Nutritional Assessment****Prerequisites:** Lifespan nutrition, human nutrition & metabolism, or equivalent.**Description:** Dietary, physical, and biochemical assessment techniques and their application to patient or client nutritional status assessment in health care systems.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5603 Statistical Methods in Dietetics****Prerequisites:** Admission to MS in Dietetics.**Description:** The elementary tools that are commonly used in making statistical decisions in the field of dietetics. Understanding of data and the methods used to analyze such data particularly as it pertains to the dietetics profession. Web-based instruction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences

NSCI 5613 Advanced Nutrition Education and Counseling**Prerequisites:** Consent of instructor.**Description:** Analysis of various learning and behavior change theories and application in nutrition education.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5643 Advanced Medical Nutrition Therapy****Prerequisites:** Admission to dietetic internship or consent of instructor.**Description:** Physiological and metabolic bases for nutritional support in disease.**Credit hours:** 3**Contact hours:** Lecture: 2 Lab: 3 Contact: 5**Levels:** Graduate**Schedule types:** Lab, Lecture, Combined lecture and lab**Department/School:** Nutritional Sciences**NSCI 5673 Human Resources****Prerequisites:** Admission to Great Plains IDEA online MS in Dietetics or consent of instructor.**Description:** Future role, focus, practices and governance of human resources in health care.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5683 Fundamentals of Leadership in Dietetics****Prerequisites:** Admission to Great Plains IDEA online MS in Dietetics or consent of instructor.**Description:** Study of the key issues in the theory, research, and application of leadership within the context of dietetics practice. Includes defining leadership, understanding situational characteristics that facilitate/hinder effective leadership, understanding effective/dysfunctional leadership, and gaining greater insight into one's own leadership style and functioning. Web-based instruction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5713 Advanced Community Nutrition****Prerequisites:** NSCI 2114, NSCI 3223 and NSCI 4733 or equivalent or consent of instructor.**Description:** Current issues in community nutrition with emphasis on program development and evaluation of community nutrition programs. Analysis of the impact of economic, political, legislative and cultural diversity factors in the field of community nutrition.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5743 Advanced Laboratory Techniques in Nutritional Sciences****Prerequisites:** A course in biochemistry and a course in statistics.**Description:** An integrated lecture and laboratory course examining the basic theories and techniques used in experimental nutritional sciences. Application of a range of biochemical and molecular biological techniques as they are currently applied to modern biomedical research.**Credit hours:** 3**Contact hours:** Lecture: 2 Lab: 2 Contact: 4**Levels:** Graduate**Schedule types:** Lab, Lecture, Combined lecture and lab**Department/School:** Nutritional Sciences**NSCI 5753 Health Care Administration****Prerequisites:** Admission to MS in Dietetics.**Description:** Overview of U.S. and international health care systems. Administrative roles of health care professionals and how they affect patient health and health care delivery in various settings.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 5843 Non-thesis Graduate Capstone****Prerequisites:** Final semester and consent of instructor.**Description:** A guided course with a research paper and presentation that is the final requirement for graduate students in NSCI's Master of Science degree, non-thesis plan. Not recommended for students interested in pursuing a PhD. Graded on a pass-fail basis. Previously offered as NSCI 5840.**Credit hours:** 3**Contact hours:** Contact: 3 Other: 3**Levels:** Graduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences**NSCI 5870 Problems in Nutritional Science****Description:** Analysis of emerging problems and trends in nutritional sciences. Offered for variable credit, 1-4 credit hours, maximum of 6 credit hours.**Credit hours:** 1-4**Contact hours:** Contact: 1-4 Other: 1-4**Levels:** Graduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences**NSCI 5913 Nutritional Epidemiology****Prerequisites:** HLTH 5323 or MPH 5323 or admission to NSCI graduate program, and Introductory Nutrition and Statistics, or consent of instructor.**Description:** Assessing the impact of nutrition and physical activity on health outcomes from an epidemiological perspective. Attention will be given to understanding the spectrum of study designs, including their benefits and drawbacks, used to examine this relationship.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences

NSCI 5960 Master's Seminar in Nutritional Sciences**Prerequisites:** NSCI graduate students.**Description:** Individual and group seminars on current issues and research in nutritional sciences. Previously offered as NSCI 5961. Offered for fixed credit, 1 credit hour, maximum of 2 credit hours.**Credit hours:** 1**Contact hours:** Contact: 1 Other: 1**Levels:** Graduate**Schedule types:** Discussion**Department/School:** Nutritional Sciences**NSCI 5963 Environmental Scanning and Analysis****Prerequisites:** Admission to Great Plains IDEA online MS in Dietetics or consent of instructor.**Description:** Discussion of changes in the economic, social, ethical, political, legal, technological, and ecological environments in which dietitians practice. Implications of these changes for education, practice and research within the field with particular emphasis on the healthcare industry. Web-based instruction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 6000 Doctoral Dissertation****Prerequisites:** Consent of major professor.**Description:** Offered for variable credit, 1-12 credit hours, maximum of 45 credit hours.**Credit hours:** 1-12**Contact hours:** Contact: 1-12 Other: 1-12**Levels:** Graduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences**NSCI 6022 Advanced Energy Metabolism****Prerequisites:** NSCI 5033 and NSCI 5043**Description:** Critical discussion and directed study of current literature and concepts in the nutritional control of gene expression and regulation of energy homeostasis from the cellular to organismal level.**Credit hours:** 2**Contact hours:** Lecture: 2 Contact: 2**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 6033 Phytochemicals****Prerequisites:** Advanced human nutrition/metabolism or consent of instructor.**Description:** Identification of basic structural, functional and metabolic properties of phytochemicals (substances in plants that have been linked to reducing chronic disease). Special attention placed on health benefits and chronic disease risk reduction.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 6223 Nutrition in Immunology****Prerequisites:** NSCI 5043 or consent of instructor.**Description:** Principles and issues related to nutrition and immunology. Impact of nutrients and nutritional status on integrity of the immune system.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 6243 Nutrition and Cancer****Description:** Examination of basic cancer biology and methodology used to study nutrition and cancer relationships. The role of nutrition in specific cancers, cancer prevention and cancer treatment will be explored.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 6451 Advanced Grant Writing in Nutritional Sciences****Prerequisites:** Admission to the PhD in NSCI and NSCI 5123 or equivalent, or consent of instructor.**Description:** Grant writing, identifying external funding and managing grants for nutritional sciences research projects.**Credit hours:** 1**Contact hours:** Lecture: 1 Contact: 1**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 6643 Clinical Aspects of Nutrition Support****Prerequisites:** Medical nutrition therapy; or consent of instructor.**Description:** Specialized nutrition assessment and support. Review of energy expenditure and substrate utilization in specific disease states. Current methods for the initiation and management of enteral and parenteral nutrition therapy including access, metabolic and mechanical complications. Evaluation of nutrition support methodology in selected disease states.**Credit hours:** 3**Contact hours:** Lecture: 3 Contact: 3**Levels:** Graduate**Schedule types:** Lecture**Department/School:** Nutritional Sciences**NSCI 6870 Independent Study in Nutritional Sciences****Description:** In-depth analysis of research issues in nutritional sciences. Offered for variable credit, 1-3 credit hours, maximum of 6 credit hours.**Credit hours:** 1-3**Contact hours:** Contact: 1-3 Other: 1-3**Levels:** Graduate**Schedule types:** Independent Study**Department/School:** Nutritional Sciences

NSCI 6960 Seminar: Emerging Topics in Nutrition

Description: Critical evaluation of research in nutritional sciences. Individual and group seminars on selected topics. Previously offered as NSCI 6961. Offered for fixed credit, 1 credit hour, maximum of 4 credit hours.

Credit hours: 1

Contact hours: Contact: 1 Other: 1

Levels: Graduate

Schedule types: Discussion

Department/School: Nutritional Sciences