

# NUTRITION AND HEALTH SCIENCES (NUTR)

## NUTR 805 Research Methods

**Prerequisites:** Graduate standing

**Description:** Philosophy, goals, and methodologies related to research in nutritional science. Survey and application of basic research tools.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

## NUTR 806 Advanced Teaching Strategies

**Crosslisted with:** ALEC 805, TEAC 805

**Description:** Contemporary and innovative teaching strategies, emphasizing learner-centered instruction, suitable to teaching in college and postsecondary institutions, outreach programs public schools, and other settings. Students participate in active learning as they apply learning theory in practice, prepare and demonstrate teaching methods, and plan for instruction in discipline areas of their choice.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**Prerequisite for:** ALEC 400, ALEC 800; TEAC 905, ALEC 905

## NUTR 807 Principles of Epidemiology for Nutrition and Public Health

**Crosslisted with:** NUTR 407

**Prerequisites:** NUTR 250 and 3 or hrs Statistics.

**Description:** Application of basic concepts of epidemiology to nutrition and public health to include epidemiological research design, estimating outcome measures and determining cause and effect and effectiveness of interventions to prevent and treat disease.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

## NUTR 810 Transdisciplinary Obesity Prevention

**Crosslisted with:** CYAF 810

**Prerequisites:** NUTR 455 or equivalent; Graduate standing

**Description:** Using a transdisciplinary team of faculty and guest lecturers, students will be introduced to the interrelationship of obesity and dietary components, behavior, exercise and sports science, physical activity, health promotion, genetics, nutrigenomics, child development, family dynamics, cultural issues, epidemiology, population disparity, educational leadership, public policy and other related topics.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Prerequisite for:** NUTR 910, CYAF 910

## NUTR 812 Multimedia Applications for Education and Training

**Crosslisted with:** ALEC 412, ALEC 812

**Description:** Practical applications in developing and evaluating multimedia resources for students. Surveys new applications, creates and develops various instructional materials, and reviews current practice against relevant theory. Use current software packages to develop materials for various audiences.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

## NUTR 820 Molecular Nutrition

**Crosslisted with:** NUTR 420

**Prerequisites:** For NUTR 420: BIOS 201 and BIOC 431, or parallel. For NUTR 820: None

**Notes:** A neuroscience course is a plus, although not required.

**Description:** The mechanisms of nutrient sensing and transport, and how nutrients regulate physiological processes at the molecular level.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**Experiential Learning:** Case/Project-Based Learning

## NUTR 821 Molecular Nutrition Techniques

**Prerequisites:** BIOC 831

**Notes:** NUTR 820 recommended.

**Description:** Basic techniques for molecular studies in nutritional sciences.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**Course and Laboratory Fee:** \$50

## NUTR 829A Food Security: A Global Perspective

**Crosslisted with:** PLAS 429A, AGRO 829A, HORT 829A, NRES 429A, NRES 829A, NUTR 429A

**Prerequisites:** Junior standing

**Description:** Overview of the technical and sociocultural dimensions of global food insecurity.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

## NUTR 830 Nutritional Anthropology

**Crosslisted with:** ANTH 430, ANTH 830, NUTR 430

**Prerequisites:** ANTH 242 or equivalent.

**Description:** Anthropological approaches to the study of nutrition. Background to nutrition science; bio-cultural aspects of obesity, fertility, lactose intolerance, and infant feeding practices; biological differences in nutritional requirements, fertility, and mortality; interpretation of nutritional deficiencies in skeletal remains; reconstructing prehistoric diets from archaeological evidence; and evaluation of relationships between dietary patterns and dental remains in fossil record.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 834 Food and Nutrition in Biocultural Perspective**

**Description:** This seminar-style course takes a multidisciplinary, holistic, comparative approach to examine the complex transformation of biological hunger into what is culturally defined as cuisine. Because food patterns are the result of unique combinations of elements, including ecological, historical, cultural, political, colonial, and illness and disease factors, a broad approach is essential. We consider how edibles are transformed and examine the impact of dietary patterns on health, growth and development, and rates of malnutrition globally.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NUTR 840 Research Critiques in Extracellular Vesicles**

**Crosslisted with:** NUTR 440

**Prerequisites:** NUTR 440: BIOS 213 & BIOS 213L, and BIOC 431 or parallel with prior knowledge of biochemistry, physiology, or its equivalent. For NUTR 840: None

**Description:** Physiological and pathological adaptations of Extracellular vesicles (EV). By reading, discussing, and presenting reviewed scientific manuscripts, learning about the current limitations in the EV biology field, how to critically review a scientific manuscript, and how to provide scientific presentations are emphasized in a journal-club format.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Experiential Learning:** Case/Project-Based Learning

**NUTR 845 Obesity Diseases and Human Health**

**Crosslisted with:** NUTR 445

**Prerequisites:** NUTR250, BIOS 213 & BIOS 213L or parallel

**Notes:** Prior knowledge of biochemistry, physiology or advanced nutrition and metabolism or its equivalent needed

**Description:** Introduction to the prevalence of over nutrition, which results in the development of obesity, maternal obesity and metabolic syndrome. Current research topics will include complications of obesity and obesity-during pregnancy.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Experiential Learning:** Case/Project-Based Learning

**NUTR 855 Teaching Learners to Learn**

**Crosslisted with:** EDAD 855, EDPS 855, SPED 855, TEAC 855

**Description:** Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**Prerequisite for:** EDPS 967

**NUTR 856 Clinical Exercise Physiology**

**Crosslisted with:** NUTR 456

**Prerequisites:** NUTR 486/886 or equivalent.

**Description:** Cardiovascular, pulmonary, metabolic, pharmacologic, endocrinologic, renal, neurologic, inflammatory, and orthopedic aspects of clinical exercise physiology as they relate to exercise testing and programming.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**Offered:** FALL/SPR

**NUTR 857 Classroom and Outreach Experiences in Food and Nutrition**

**Description:** Supervised classroom or outreach experiences in educational or community settings.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 858 Exercise, Sports & Performance Nutrition**

**Prerequisites:** BIOS/NUTR 484/884.

**Description:** Synergistic effects of nutrition and exercise on physical performance, including the potential influences of dietary supplements.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 859 Nutrition: A Focus on Life Stages**

**Prerequisites:** 3 hours undergraduate nutrition and 6 hours undergraduate natural sciences

**Description:** Nutritional needs throughout the life span including pregnancy, lactation, growth and aging. Approaches to nutrition education for different ages.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 860 Health Behavior Theories and Approaches**

**Description:** Foundation course for developing expertise in public health theory as it applies to physical activity and nutrition and related core practices as an essential means to addressing today's public health issues. Consideration of approaches for complex social problems.

Exposure to behavioral theories and models as well as examples of their use in research and application. Understanding and positively influencing health behaviors with a focus on improving nutrition and physical activity, while gaining an appreciation for the gap and limitations that exist between theory and practice.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NUTR 862 Health Policy**

**Description:** Critical thinking about policy issues related to health. Identify and define policy issues and problems, formulate different policy options, predict factors that may affect implementation.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NUTR 870 Cost Control for Foodservice**

**Crosslisted with:** NUTR 470

**Prerequisites:** NUTR 370

**Description:** Principles of cost control for foodservice. Integration of cost control and foodservice/restaurant management principles which influence financial integrity. Utilization of the computer as a tool to enhance decision making capabilities.

**Credit Hours:** 2

**Max credits per semester:** 2

**Max credits per degree:** 2

**Grading Option:** Grade Pass/No Pass Option

**NUTR 871 Vines, Wines and You**

**Crosslisted with:** PLAS 471, HORT 871, NUTR 471, HRTM 471, HRTM 871

**Prerequisites:** 6 hrs science or equivalent experience; 21 years of age or older

**Notes:** Proof of age is required.

**Description:** Origin, botany, historical and cultural significance of the grapevine and related species. Principles and practices of vineyard establishment, management and processing of grape products, importance and/or scope of grape and wine industry; global and local significance. Culinary applications, health, environmental and safety-related issues, business and industry relations and experience.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**Course and Laboratory Fee:** \$95

**NUTR 873 Organization and Administration of Foodservice**

**Crosslisted with:** NUTR 473

**Prerequisites:** NUTR 370.

**Description:** Organizational, administrative, and human relations concepts to foodservice. Utilization of computer applications in administration of a foodservice facility.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**Prerequisite for:** NUTR 973

**NUTR 875 Applied Dietetic Practice and Concepts**

**Description:** Applied professional dietetic practice concepts addressing specific accreditation required competencies and performance indicators through the completion of didactic components and professional practicum supervised learning experiences.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 5

**Grading Option:** Graded

**Offered:** FALL

**Course and Laboratory Fee:** \$15

**NUTR 880 Introduction to Functional Electrocardiography**

**Crosslisted with:** NUTR 480

**Prerequisites:** NUTR 486; NUTR 484

**Description:** Theory and application of electrocardiography in graded exercise testing.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 884 Physiology of Exercise**

**Crosslisted with:** NUTR 484

**Prerequisites:** BIOS 213 or equivalent..

**Description:** Effects of physical activity on the circulatory, respiratory, and other physiological processes.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Prerequisite for:** NUTR 486, NUTR 886; NUTR 488; NUTR 858

**Course and Laboratory Fee:** \$110

**NUTR 886 Exercise Testing and Exercise Programming in Adult Fitness and Cardiac Rehabilitation**

**Crosslisted with:** NUTR 486

**Prerequisites:** NUTR 484; EDPS 459 or STAT 218

**Description:** In-depth analysis and development of the techniques and knowledge prerequisite for certification in adult fitness and cardiac rehabilitation as prescribed by the American College of Sports Medicine.

**Credit Hours:** 4

**Max credits per semester:** 4

**Max credits per degree:** 4

**Grading Option:** Graded

**Prerequisite for:** NUTR 456, NUTR 856

**Course and Laboratory Fee:** \$110

**Experiential Learning:** Case/Project-Based Learning

**NUTR 891 Special Topics in Human Sciences**

**Crosslisted with:** HUMS 891, SLPA 891, TEAC 891, TMFD 891, CYAF 891

**Description:** Aspects of human sciences not covered elsewhere in the curriculum.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 893 Oral Science Communication Strategies**

**Description:** Application of specialized knowledge related to the role of nutrition in health and treatment of diseases in communication of research findings. Development of an evidence-based professional audience-centered presentation. Demonstration of oral communication strategies which effectively convey complex nutrition research findings.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 2

**Grading Option:** Grade Pass/No Pass Option

**Offered:** FALL/SPR

**NUTR 894 Essentials of Strength Training & Conditioning**

**Crosslisted with:** NUTR 494

**Prerequisites:** Junior Standing

**Description:** Overview of the scientific principles and practical applications of strength and conditioning that integrate physiological responses, adaptations, testing, exercise techniques, program design, and periodization for athletic performance.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NUTR 896 Independent Study****Crosslisted with:** NUTR 496**Prerequisites:** 12 hrs in major related areas; permission.**Notes:** Supervised and evaluated by departmental faculty members.**Description:** Individual projects in research, literature review, or creative production.**Credit Hours:** 1-5**Min credits per semester:** 1**Max credits per semester:** 5**Max credits per degree:** 5**Grading Option:** Grade Pass/No Pass Option**NUTR 899 Masters Thesis****Prerequisites:** Admission to masters degree program and permission of major adviser**Credit Hours:** 1-10**Min credits per semester:** 1**Max credits per semester:** 10**Max credits per degree:** 99**Grading Option:** Pass No-Pass**NUTR 910 Research Planning and Grant Writing for Childhood Obesity****Crosslisted with:** CYAF 910**Prerequisites:** NUTR 810 or CYAF 810**Description:** The purpose of this course is to examine the philosophy, goals, and methodologies related within the concept of childhood obesity research and to apply the principles of the transdisciplinary nature of childhood obesity prevention and treatment in transdisciplinary obesity prevention research and evaluation. The course will include acquisition of resources to address childhood obesity issues, exposure to funding opportunities, research design and grant development, translation of research or programmatic findings to community and professional audiences.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded**Prerequisite for:** NUTR 911, CYAF 911**NUTR 911 Practicum: Experiential Learning Experiences in Childhood Obesity Prevention****Crosslisted with:** CYAF 911**Prerequisites:** NUTR 910 or CYAF 910 or concurrent**Notes:** Practicum: Experiential Learning Experiences in Childhood Obesity Prevention is a section of the Nutrition and Health Sciences Practicum course.**Description:** An applied, monitored, and supervised field based learning experience. Gain practical experience as they follow a negotiated and/or directed plan of study. The purpose of this course is to provide students with transdisciplinary experiential learning experiences related to childhood obesity prevention or treatment. Students will work with the course instructor to determine a practicum site that meets the student's interests and the requirements of the course. Students will work collaboratively with a transdisciplinary team of individuals at the practicum site to meet the course student learning outcomes through hands on experiences.**Credit Hours:** 1**Max credits per semester:** 1**Max credits per degree:** 1**Grading Option:** Graded**NUTR 920 Teaching Seminar and Practicum****Crosslisted with:** CYAF 920, TMFD 920**Description:** Supervised classroom experiences designed to develop competencies in teaching at the college level.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option**NUTR 921 Interdepartmental Nutrition Seminar****Crosslisted with:** ASCI 921**Prerequisites:** Permission**Description:** Presentation and discussion of current literature and research in the field of nutrition.**Credit Hours:** 1**Max credits per semester:** 1**Max credits per degree:** 1**Grading Option:** Grade Pass/No Pass Option**NUTR 922 Lipid Metabolism and Metabolic Syndrome****Description:** Concepts of lipid and lipoprotein metabolism; impact of genetic and nutrient factors on energy metabolism and homeostasis; development and prevention of metabolic disorders.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option**NUTR 925 Energy Metabolism****Crosslisted with:** ASCI 925**Prerequisites:** ASCI 821, BIOC 831, or NUTR 455 or 950**Notes:** Offered odd-numbered calendar years.**Description:** Critically evaluate how research in bioenergetics has contributed to scientific discoveries in the fields of nutrition, biochemistry, and physiology. Methodologies for determination of human and animal energy expenditure and body composition. Specifically, direct calorimetry, indirect calorimetry and comparative slaughter techniques. Emphasis on components of organ and tissue energy expenditures. Background information important in other nutrition courses.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option**NUTR 926 Carbohydrate and Lipid Nutrition****Crosslisted with:** ASCI 926**Prerequisites:** BIOC 831, ASCI 821 or NUTR 455 or 950**Notes:** Offered even-numbered calendar years.**Description:** Nutrition and metabolism of carbohydrates and lipids by animals and humans. Emphasis on fundamental principles and current concepts.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option

**NUTR 927 Protein and Amino Acid Nutrition**

**Crosslisted with:** ASCI 927

**Prerequisites:** ASCI 421/821 or NUTR 455 or 950; BIOC/BIOS/CHEM 431/831

**Notes:** Offered even-numbered calendar years.

**Description:** Nutrition and metabolism of proteins and amino acids by animals and humans. Fundamental principles and current concepts.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 930 Sociological/Anthropological Research Methods in Education**

**Crosslisted with:** CYAF 930, EDPS 930, TEAC 930

**Description:** Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 15

**Grading Option:** Grade Pass/No Pass Option

**NUTR 930A Ethnographic Methods**

**Crosslisted with:** CYAF 930A, EDPS 930A, TEAC 930A, ANTH 930A

**Description:** Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 930B Special Topics in Qualitative and/or Quantitative Research Methods**

**Crosslisted with:** CYAF 930B, EDPS 930B, TEAC 930B

**Description:** Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 9

**Grading Option:** Grade Pass/No Pass Option

**NUTR 930D Discourse Analysis Across School, Home and Community Settings**

**Crosslisted with:** CYAF 930D, EDPS 930D, TEAC 930D

**Description:** Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 930E Introduction to Linguistic Analysis of Classroom Interaction**

**Crosslisted with:** CYAF 930E, EDPS 930E, TEAC 930E

**Description:** Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 930J Hermeneutic Traditions in Education**

**Crosslisted with:** CYAF 930J, EDPS 930J, TEAC 930J

**Description:** Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 930K Quantitative Research Traditions in Education**

**Crosslisted with:** CYAF 930K, EDPS 930K, TEAC 930K

**Description:** Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 930M Introduction to Multimodal Textual Analysis**

**Crosslisted with:** CYAF 930M, EDPS 930M, TEAC 930M

**Description:** Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 945 Complications of Maternal Obesity**

**Crosslisted with:** ASCI 945

**Description:** Introduction to overnutrition and its complications during maternal obesity and metabolic syndrome.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Offered:** FALL



**NUTR 949 Biochemistry of Nutrition****Crosslisted with:** ASCI 949, BIOC 949**Prerequisites:** BIOC 832 or 839**Notes:** Offered odd-numbered calendar years.**Description:** Offered odd-numbered calendar years. Interrelationships of nutrients, nutritional state and metabolic processes. Energy metabolism, integration of nutrition and metabolism and nutritional regulation of gene function.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option**Offered:** FALL**NUTR 950 Integrated Principles of Human Nutrition****Prerequisites:** 12 hours of biological sciences which includes biochemistry and physiology**Description:** Integration of concepts of nutrient metabolism with food intake recommendations.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option**Prerequisite for:** ASCI 925, NUTR 925; ASCI 926, NUTR 926; ASCI 927, NUTR 927**NUTR 952 Applied Medical Nutrition Therapy I****Description:** Pathophysiology of disease and the application of nutrition in prevention, etiology, and treatment of disease. Critical review of the nutrition literature to inform practice related to both acute and chronic diseases. Overview of the nutrition care process, nutrition assessment, and common chronic diseases.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded**Offered:** SPRING**NUTR 954 Fundamentals of Nutrition Counseling****Prerequisites:** 12 hours NUTR and 6 hrs social science**Description:** Theories of behavior change and application to nutrition counseling. Practice in development of nutrition counseling skills. Current nutrition problems and applications to diverse clients.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option**NUTR 955 Applied Medical Nutrition Therapy II****Description:** Pathophysiology of disease and the application of nutrition in prevention, etiology, and treatment of disease. Critical review of the nutrition literature to inform practice related to nutrition care of complex conditions.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded**Offered:** SPRING**NUTR 956 Community Nutrition****Description:** An overview of community and public health nutrition, exploration of community nutrition programs and nutrition services, and application of nutrition education concepts for community settings.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option**NUTR 960 Nutrient Function During Exercise****Description:** Exercise and its influence on human metabolism and nutrition via biochemical and physiological pathways. Current research topics and trends addressing the interrelationships between exercise and energy, macronutrients, and micronutrients.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option**Offered:** FALL**NUTR 973 Organizational Administration in Food Service and Restaurant Management****Prerequisites:** NUTR 873**Description:** Investigation of foodservice/restaurant organizations and administration. Critical evaluation of current literature.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Grade Pass/No Pass Option**NUTR 975 Supervised Experiential Practicum****Description:** Supervised hands-on training in professional work settings for registered dietitian nutritionists in the areas of food service management, community nutrition and medical nutrition therapy.**Credit Hours:** 1-9**Min credits per semester:** 1**Max credits per semester:** 9**Max credits per degree:** 18**Grading Option:** Graded**Offered:** FALL/SPR**Course and Laboratory Fee:** \$50**NUTR 976 Organization and Management in Community Nutrition and Health Promotion****Description:** Examination of the philosophical, theoretical, and epidemiological assumptions underlying the planning, implementation, and evaluation of community and workplace health promotion programs. Development of skills and competencies for evidence-informed development of these programs.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded**Offered:** SPRING**NUTR 990 Nutrition and Health Sciences Seminar****Description:** Presentation and discussion of topics and research, by faculty, graduate students, and guest speakers, related to areas of expertise within Nutrition and Health Sciences**Credit Hours:** 1**Max credits per semester:** 1**Max credits per degree:** 1**Grading Option:** Graded**Offered:** FALL/SPR

**NUTR 991 Field Studies in Education**

**Crosslisted with:** EDAD 991, TEAC 991

**Prerequisites:** Permission

**Description:** Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Grade Pass/No Pass Option

**NUTR 992 Advanced Human Nutrition Topics**

**Prerequisites:** Permission

**Description:** In-depth evaluation of current human nutrition issues.

**Credit Hours:** 1-6

**Min credits per semester:** 1

**Max credits per semester:** 6

**Max credits per degree:** 6

**Grading Option:** Grade Pass/No Pass Option

**NUTR 994 Advanced Food Topics**

**Prerequisites:** Permission

**Description:** In-depth evaluation of food studies, culinology, and research issues.

**Credit Hours:** 1-6

**Min credits per semester:** 1

**Max credits per semester:** 6

**Max credits per degree:** 6

**Grading Option:** Grade Pass/No Pass Option

**NUTR 995 Doctoral Colloquium**

**Prerequisites:** Permission

**Description:** Intended primarily for doctoral students, although non-doctoral students are admitted with permission. Work with a faculty mentor, either on an individualized or on a small group basis. Outcome-based scholarly activities. The interaction between research and practice.

**Credit Hours:** 1-6

**Min credits per semester:** 1

**Max credits per semester:** 6

**Max credits per degree:** 18

**Grading Option:** Grade Pass/No Pass Option

**NUTR 996 Research Other Than Thesis**

**Prerequisites:** Permission

**Credit Hours:** 1-8

**Min credits per semester:** 1

**Max credits per semester:** 8

**Max credits per degree:** 8

**Grading Option:** Grade Pass/No Pass Option

**NUTR 998 Special Topics in Human Sciences**

**Crosslisted with:** CYAF 998, TMFD 998

**Prerequisites:** Permission

**Credit Hours:** 1-3

**Min credits per semester:** 1

**Max credits per semester:** 3

**Max credits per degree:** 6

**Grading Option:** Grade Pass/No Pass Option

**NUTR 999 Doctoral Dissertation**

**Prerequisites:** Admission to doctoral degree program and permission of supervisory committee chair

**Credit Hours:** 1-24

**Min credits per semester:** 1

**Max credits per semester:** 24

**Max credits per degree:** 99

**Grading Option:** Pass No-Pass