FOOD SCIENCE AND NUTRITION (FSN)

FSN Courses

FSN 101. Orientation to the Food Science and Nutrition Majors. 1 unit
Term Typically Offered: F, CR/NC
Understanding the depth and breadth of the Food Science and Nutrition programs. Emphasis on academic and career planning. Students are required to complete this course within their first year in the major. Separate sections will be offered for each major. Credit/No Credit grading only. 1 lecture.

FSN 121. Fundamentals of Food. 4 units
Term Typically Offered: F, W, SP
Theoretical aspects and practical applications of the principles of culinary science and food preparation. 3 lectures, 1 laboratory.

FSN 125. Introduction to Food Science. 4 units
Term Typically Offered: F
Basic principles of food science. Chemical, physical, and microbiological properties of foods. Ingredient properties, preservation, and processing. Overview of the commercial food processing industry at state and national levels. Field trip may be required. 3 lectures, 1 laboratory.

FSN 200. Special Problems for Undergraduates. 1-4 units
Term Typically Offered: F, W, SP
Prerequisite: Consent of instructor.
Individual investigation, research studies, or surveys of selected problems. Total credit limited to 6 units, with a maximum of 4 units per quarter.

FSN 201. Enterprise Project. 1-4 units
Term Typically Offered: TBD
CR/NC
Prerequisite: FSN 125 or FSN 230 or FSN 121 and consent of instructor.
Post-harvest processing of a high quality food product. Project participation is voluntary and subject to approval by the department head and the Cal Poly Corporation. Total degree credit for FSN 201 and FSN 401 combined limited to 12 units. Credit/No Credit grading only.

FSN 204. Food Processing Operations. 4 units
Term Typically Offered: W
Prerequisite: FSN 125 or FSN 230.
Applied food manufacturing and processing technology emphasizing unit operations. Water removal in foods (dehydration, spray drying, vacuum concentration), heat removal (refrigeration, freezing), and osmotic preservation. Students produce processed foods in a pilot plant. Field trip may be required. 3 lectures, 1 laboratory.

FSN 210. Nutrition. 4 units
GE Area B5
Term Typically Offered: F, W, SP, SU
Introduction to the science of human nutrition. Nutrient structure, metabolism, function and requirements. Application of nutrition science principles to promote optimal health. Course may be offered in classroom-based or online format. 4 lectures. Fulfills GE B5.

FSN 215. Nutrition in American, Hispanic American, African American, and Asian American. 4 units
Term Typically Offered: TBD
Prerequisite: Consent of instructor.
Nutritional needs and related nutritional challenges of women and children, including fertility, pregnancy and lactation; physical, nutritional, social growth and development from infancy through adolescence. Current nutrition issues in maternal and child nutrition. 4 lectures.

FSN 220. Nutrition. 4 units
Term Typically Offered: F, W, SP
Prerequisite: FSN 210 and junior standing.
Nutritional needs and related nutritional challenges of women and children, including fertility, pregnancy and lactation; physical, nutritional, social growth and development from infancy through adolescence. Current nutrition issues in maternal and child nutrition. 4 lectures.

FSN 225. Elements of Food Science. 4 units

FSN 230. Elements of Food Processing. 4 units
Term Typically Offered: F, W, SP
Principles of food processing operations covering thermal processing, freezing, dehydration, fermentation and raw material handling. Overview of food technology, food quality, spoilage, packaging and label requirements. For non-Food Science majors only. Field trip may be required. 3 lectures, 1 laboratory.

FSN 244. Cereal and Bakery Science. 4 units
Term Typically Offered: TBD
Prerequisite: FSN 125 or FSN 230.

FSN 245. Elements of Food Safety. 4 units
Introduction to food safety from farm-to-fork. Topics include good agricultural practices, good manufacturing practices, food safety regulations, and an overview of Hazard Analysis Critical Control Point (HACCP). Emphasis on control of biological, chemical, and physical hazards to assure food safety. Not open to Food Science majors. 4 lectures.

FSN 250. Food and Nutrition: Customs and Culture. 4 units
Term Typically Offered: F
Not open to Food Science majors. 4 lectures.

FSN 275. Elements of Food Safety. 4 units
Term Typically Offered: SP
Introduction to food safety from farm-to-fork. Topics include good agricultural practices, good manufacturing practices, food safety regulations, and an overview of Hazard Analysis Critical Control Point (HACCP). Emphasis on control of biological, chemical, and physical hazards to assure food safety. Not open to Food Science majors. 4 lectures.

FSN 290. Selected Topics. 1-4 units
Term Typically Offered: TBD
Directed group study of selected topics. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1 to 4 lectures.

FSN 304. Advanced Culinary Principles and Practice. 4 units
Term Typically Offered: SP
Prerequisite: CHEM 127 and FSN 121.
Chemistry of starch, fat and proteins and its impact on texture, taste, flavor and appearance of food. Effects of microorganisms on changes of food during preparation and storage. 3 lectures, 1 laboratory.

FSN 310. Maternal and Child Nutrition. 4 units
Term Typically Offered: F, W
Prerequisite: FSN 210 and junior standing.
Nutritional needs and related nutritional challenges of women and children, including fertility, pregnancy and lactation; physical, nutritional, social growth and development from infancy through adolescence. Current nutrition issues in maternal and child nutrition. 4 lectures.
FSN 311. Sensory Evaluation of Food. 4 units
Term Typically Offered: W
Prerequisite: STAT 218; FSN 125 or FSN 230.
Sensory attributes of food, physiological basis of sensory evaluation, sensory panels, environment for sensory evaluation, sample preparation and presentation, types of score cards, statistical methods for data analysis and interpretation. 3 lectures, 1 laboratory.

FSN 315. Nutrition in Aging. 4 units
Term Typically Offered: F, W, SP
Prerequisite: FSN 210; sophomore standing.

FSN 319. Food Technology for the Consumer. 4 units
GE Area F
Term Typically Offered: F, SP
Prerequisite: Junior standing and completion of GE Area B.
Overview of the science and technology used to produce the foods consumed on a daily basis. Food science, biotechnology, food law, processing, preservation, ingredient functionality, package label information, and food safety information. Not open to Food Science Majors. 4 lectures. Fulfills GE Area F.

FSN 321. Contemporary Issues in Food Choice and Preparation. 4 units
Term Typically Offered: W, SP
Prerequisite: FSN 121, FSN 210, sophomore standing.
Principles involved in the choice, purchase, and preparation of foods in a variety of settings and for various populations. Contemporary and ongoing issues associated with food and cooking in the context of nutrition and health. Planning and preparation of meals with emphasis on nutritional, aesthetic, economic and cultural aspects of food. 3 lectures, 1 laboratory.

FSN 328. Nutrient Metabolism I. 4 units
Term Typically Offered: F, W, SP
Prerequisite: BIO 161; CHEM 313 or CHEM 371; FSN 210; and junior standing.
Metabolism of carbohydrates, fats and proteins as it applies to human nutrition. Integration and regulation of metabolic pathways. 4 lectures.

FSN 329. Nutrient Metabolism II. 4 units
Term Typically Offered: F, W, SP
Prerequisite: FSN 328.
Continuation of FSN 328. Biochemical, molecular, and physiological functions of vitamins and minerals and their interaction with other nutrients. 3 lectures, 1 laboratory.

FSN 330. Introduction to Principles of Food Engineering. 4 units
Term Typically Offered: F
Prerequisite: FSN 125; MATH 118 or equivalent; and PHYS 121.
Introduction to principles of food engineering and basic calculations needed for food plant operations. Unit conversions, material balance, heat balance, steam heating, psychrometry, vacuum and pressure. Field trip may be required. 3 lectures, 1 laboratory.

FSN 334. Food Packaging. 3 units
Term Typically Offered: SP
Prerequisite: FSN 125 and FSN 204.
Function of food packaging in food processing and preservation. Packaging materials and forms. Regulations and testing of food packaging material. Oral presentation required. 3 lectures.

FSN 335. Food Quality Assurance. 4 units
Term Typically Offered: F
Prerequisite: FSN 125 or FSN 230; junior standing.
Microbiological and physical methods of analyses of foods used in food quality assurance and product development laboratories. Organization and management of quality assurance programs utilizing basic statistical control. Development of food production standards and interpretation of specifications. Packaging and container evaluation. 3 lectures, 1 laboratory.

FSN 341. Fermented Foods. 4 units
Term Typically Offered: SP
Prerequisite: Junior standing and completion of GE Area B.
Processing, manufacturing, historical and bio-technical applications of fermentation technology for the production of food and beverages. Wines of the world, distilled beverages, beers, fermented dairy, vegetable and meat products important to the post-harvest economy of California. 4 lectures.

FSN 342. Brewing Science. 4 units
Term Typically Offered: TBD
Prerequisite: CHEM 313 and MCRO 221.
Scientific principles of malting and brewing. Chemistry, microbiology, and technology of the entire brewing process, from the raw ingredients (barley, malt, hops, water, yeast) to the production of beer and its quality assurance. 4 lectures.

FSN 343. Institutional Foodservice I. 3 units
Term Typically Offered: F, W
Prerequisite: FSN 121 and junior standing.
Principles of equipment selection and food service facility, planning with emphasis on sanitation and safety. 2 lectures, 1 laboratory.

FSN 344. Institutional Foodservice II. 4 units
Term Typically Offered: W, SP
Prerequisite: FSN 332, FSN 343.
Continuation of FSN 343. Economic principles and problems involved in planning and preparing food using institutional equipment to meet specific product standards for large groups. Field trip may be required. 3 lectures, 1 laboratory.

FSN 346. Brewing Methods. 3 units
Term Typically Offered: TBD
Prerequisite: FSN 342.
Introduction to brewing practices and hands-on instruction on industry standard laboratory methods for the analysis of barley, malt, hops, water, yeast, and beer. Perform pilot brews and apply methodologies for the analysis of raw ingredients, process control, and final product. Field trip required. 1 lecture, 2 laboratories. Students must be 18 years of age or older.
FSN 354. Packaging Function in Food Processing. 3 units  
Term Typically Offered: SP  
Prerequisite: Junior standing.  
Basic food spoilage and preservation mechanisms. The role of food packaging in food processing. Package and food compatibility. For non-Food Science majors. 3 lectures.

FSN 364. Food Chemistry. 4 units  
Term Typically Offered: F  
Prerequisite: FSN 125 or FSN 230, CHEM 313.  
Study of molecular properties of major food components such as water, carbohydrates, lipids, proteins, vitamins, minerals, pigments, enzymes and other important molecules as well as chemical reactions of these compounds occurring as a result of processing and or storage. Laboratory focus on assessment of the role of food components in food systems and food products. 3 lectures, 1 laboratory.

FSN 368. Food Analysis. 4 units  
Term Typically Offered: W  
Prerequisite: FSN 364.  
Principles of chemical and biochemical methods and techniques for measuring food protein, carbohydrates, lipids, water, vitamins, minerals and other components of foods using approved methods. 3 lectures, 1 laboratory.

FSN 370. Food Plant Sanitation and Prerequisite Programs. 4 units  
Term Typically Offered: W  
Prerequisite: FSN 204 and MCRO 221.  
Principles and practice of food plant sanitation and prerequisite programs to ensure production of a safe and wholesome food supply. Topics include good manufacturing practices, sanitary design, cleaning and sanitizing compound selection, pest management, waste treatment, and allergen control programs. Field trips required. 4 lectures.

FSN 374. Food Laws and Regulations. 4 units  
Term Typically Offered: W  
Prerequisite: FSN 125 or FSN 230 or WVIT 102.  
Federal, state, and local laws and regulations affecting the production, processing, packaging, marketing, and distribution of food. Emphasis on FDA, USDA and California codes. 4 lectures.

FSN 375. Food Safety. 4 units  
Term Typically Offered: SP  
Prerequisite: FSN 370.  
Principles, practices, and regulations governing and ensuring the chemical, physical, and biological safety of the food supply. Topics include Hazard Analysis Critical Control Point (HACCP), risk assessment, import safety, food bioterrorism and defense, product recalls, and traceability. 3 lectures, 1 activity.

FSN 400. Special Problems for Advanced Undergraduates. 1-4 units  
Term Typically Offered: F, W, SP  
Prerequisite: Consent of instructor.  
Individual investigation, research, studies, or surveys of selected problems. Total credit limited to 6 units, with a maximum of 4 units per quarter.

FSN 401. Advanced Enterprise Project. 1-4 units  
Term Typically Offered: TBD  
Prerequisite: FSN 201 and junior standing and consent of instructor.  
Leadership responsibility on enterprise projects. Lead students, under the supervision of instructor, will be accountable for all phases of the project: scheduling times, securing raw product, record keeping, and marketing of the product. Total degree credit for FSN 201 and FSN 401 combined limited to 12 units.

FSN 408. Food Product Development. 4 units  
Term Typically Offered: F, SP  
Prerequisite: FSN 311; FSN 368; and senior standing.  
Functionality of water, carbohydrates, proteins, lipids, additives and other food ingredients used in the formulation, development, and processing of foods. Product development processes from idea generation to marketing to consumer guided technical prototype development will be completed. 3 lectures, 1 laboratory.

FSN 410. Nutritional Implications of Food Industry Practices. 4 units  
Term Typically Offered: TBD  
Prerequisite: FSN 210; FSN 125 or FSN 230; and junior standing.  
Methods for assessing nutritional quality of foods/diets. Nutrient databases for raw and processed foods. Effects of food industry practices (e.g., processing, fortification, new product development, biotechnology) on nutritional quality of foods/diets. Evolution of public policy. 4 seminars.

FSN 415. Nutrition Education and Communications. 4 units  
Term Typically Offered: F, SP  
Prerequisite: Senior standing. Corequisite: FSN 329.  
Application of appropriate behavior and learning theories in nutrition education and communications across diverse population groups. Effective use of techniques, materials, and computer-based technology to enhance communications. Includes community-based learning projects. 4 lectures.

FSN 416. Community Nutrition. 4 units  
Term Typically Offered: F, SP  
Prerequisite: FSN 328; senior standing. Recommended: FSN 310, FSN 315 and FSN 415.  
Federal, state and local nutrition assessment activities and program services. Emphasis on public health, health promotion and disease prevention. Development of skills in assessing community nutrition problems and planning community interventions. 4 lectures.

FSN 417. Nutrition Counseling. 4 units  
Term Typically Offered: W, SP  
Prerequisite: Senior standing, PSY 201/202. Corequisite: FSN 415.  
Communication, behavioral, and counseling theories as they relate to nutrition counseling. Emphasis on development of skills to promote healthy eating behaviors. Examination of eating disorders and obesity, including preventative and therapeutic interventions. 4 lectures.
FSN 420. Critical Evaluation of Nutrition Research. 4 units
Term Typically Offered: F, W, SP
Prerequisite: STAT 218. Corequisite: FSN 329.

Nutrition research terminology and methods. Critical evaluation and interpretation of nutrition research with emphasis on human studies of diet-health relationships. Evidence based review. 4 seminars.

FSN 426. Nutrition and Foodservice Systems Management. 4 units
Term Typically Offered: F, SP
Prerequisite: FSN 344.

Principles of successful organization and management with their application to the effective operation of clinical, community and foodservice systems. Administrative responsibilities of nutrition and foodservice directors. Management theories and practice. Labor relations. Discipline and performance appraisal. 4 lectures.

FSN 429. Clinical Nutrition I. 4 units
Term Typically Offered: F, W
Prerequisite: BIO 231 (ZOO 331 equivalent); BIO 232 (ZOO 332 equivalent); and senior standing. Corequisite: FSN 329.

Application of the nutrition care process to physiological disorders which may alter nutritional requirements or require dietary modifications. Anthropometric, biochemical, clinical, and dietary assessment. Diabetes mellitus, electrolytes, acid-base balance, hydration and enteral and parenteral nutrition. Anemias, pharmacology, cardiovascular disease and obesity. 3 lectures, 1 laboratory.

FSN 430. Clinical Nutrition II. 4 units
Term Typically Offered: W, SP
Prerequisite: FSN 429.

Continuation of FSN 429. Application of the nutrition care process to physiological and metabolic disorders which may alter nutritional requirements or require dietary modifications. GI disease, respiratory diseases, metabolic stress, burns, cancer, inborn errors of metabolism, cardiovascular disease, liver disease, and renal disease. 3 lectures, 1 laboratory.

FSN 440. Internship. 1-12 units
Term Typically Offered: TBD
Prerequisite: Junior standing and consent of instructor.

Career experience with private or public agencies. Total credit limited to 12 units. Maximum of 6 units may be applied toward degree requirements.

FSN 444. Food Engineering. 4 units
Term Typically Offered: W
Prerequisite: FSN 204 and FSN 330.

Engineering principles governing heat transfer, fluid flow, and introductory mass transfer and application of these principles to selected unit operations; theoretical aspects of the scientific and engineering principles of fluid flow and the transfer and change of materials and energy primarily by physical means during processing of food. 3 lectures, 1 laboratory.

FSN 461. Senior Project I. 3 units
Term Typically Offered: F, W, SP
Prerequisite: For FDSC majors, completion of GE A3, FSN 364, STAT 218, and senior standing; for NUTR majors, completion of GE A3, STAT 218, and senior standing. Corequisite for NUTR majors: FSN 329 and FSN 420.

Selection of scientific research topic in major area. Development of literature review, research questions in Senior Project I. Research design, data collection, and analysis in Senior Project II. Project requires a formal report which must follow departmental guidelines. Minimum of 90 hours per quarter.

FSN 462. Senior Project II. 3 units
Term Typically Offered: F, W, SP
Prerequisite: FSN 461.

Selection of scientific research topic in major area. Development of literature review, research questions in Senior Project I. Research design, data collection, and analysis in Senior Project II. Project requires a formal report which must follow departmental guidelines. Minimum of 90 hours per quarter.

FSN 463. Professional Practice in Nutrition and Dietetics. 2 units
CR/NC
Term Typically Offered: F
Prerequisite: Senior standing. Recommended: FSN 329.

Exploration of students' transition to professional practice, career opportunities, and factors to be considered in career decisions. Application of strategic planning, critical thinking, written and oral communication skills in preparation for nutrition and dietetics professions. 2 lectures.

FSN 470. Selected Advanced Topics. 1-4 units
Term Typically Offered: TBD
Prerequisite: Senior standing.

Directed group study of selected topics for advanced students. Open to undergraduate and graduate students. Class Schedule will list topic selected. Total credit limited to 8 units. 1-4 lectures.

FSN 471. Selected Advanced Laboratory. 1-4 units
Term Typically Offered: TBD
Prerequisite: Senior standing.

Directed group laboratory study of selected topics for advanced students. Open to undergraduate and graduate students. Class Schedule will list topic selected. Total credit limited to 8 units. 1-4 laboratories.

FSN 474. Advanced Food Processing. 4 units
Term Typically Offered: SP
Prerequisite: FSN 444 and senior standing.

Advanced topics in processing operations with emphasis on thermal processing. Non-traditional processing technology such as microwave, ionizing radiation, and high pressure. 3 lectures, 1 laboratory.
FSN 485. Cooperative Education Experience in Food Science and Nutrition. 6 units
CR/NC
Term Typically Offered: TBD
Prerequisite: Sophomore standing and consent of instructor.
Part-time work experience with an approved Food Science or Nutrition firm engaged in production or related business, industry or governmental agency. Positions are paid and usually require relocation and registration in course for two consecutive quarters. Formal report and evaluation by work supervisor required. Total credit limited to 12 units. Degree credit limited to 6 units. Credit/No Credit grading only.

FSN 495. Cooperative Education Experience in Food Science and Nutrition. 12 units
CR/NC
Term Typically Offered: TBD
Prerequisite: Sophomore standing and consent of instructor.
Full time work experience with an approved Food Science or Nutrition firm engaged in production or related business, industry or governmental agency. Positions are paid and usually require relocation and registration in course for two consecutive quarters. Formal report and evaluation by work supervisor required. Total credit limited to 12 units. Degree credit limited to 6 units. Credit/No Credit grading only.

FSN 500. Individual Study. 1-6 units
Term Typically Offered: F, W, SP
Prerequisite: Graduate standing, consent of supervising faculty member and graduate advisor.
Advanced independent study planned and completed under the direction of a member of the department faculty. Total credit limited to 6 units.

FSN 501. Lipid Metabolism and Nutrition. 3 units
Term Typically Offered: TBD
Prerequisite: Graduate standing or consent of instructor.
Digestion, absorption and metabolism of lipids with emphasis on lipoprotein metabolism, regulation of lipid metabolism, effects of gene expression, essential fatty acid requirements and functions. 3 seminars.

FSN 505. Orientation to Food Science and Nutrition Graduate Studies. 1 unit
CR/NC
Term Typically Offered: F
Prerequisite: Graduate standing.
Orientation to and discussion of research interests in food science and nutrition. Discussion of policy and ethical issues in the conduct of research. Intended for entering graduate students in Food Science or Nutrition. Credit/No Credit grading only. 1 seminar.

FSN 508. Food Product Innovation. 4 units
Term Typically Offered: TBD
Prerequisite: FSN 408.
Focus on product innovation strategies, project management, product life cycle, project development team management, product innovation metrics, process optimization and cost management. Plan and execute an industry-relevant specialized project. 3 lectures, 1 laboratory.

FSN 516. Population Health and Epidemiology. 3 units
Term Typically Offered: SP
Prerequisite: FSN 416 and graduate standing.
Advanced concepts and issues in population health and epidemiology. Covers epidemiologic methods, study design, and conceptual frameworks from public health perspective. Analytical considerations related to population health will be presented. Emphasis on nutrition-related issues at national and global levels. 3 lectures.

FSN 528. Biochemical and Molecular Aspects of Human Macronutrient Metabolism. 4 units
Term Typically Offered: TBD
Prerequisite: FSN 328 and graduate standing.
Advanced topics in the human metabolism of carbohydrates, lipids and proteins. Classic and recent findings related to mechanisms of nutrient-regulated gene expression. Metabolism related to specific diseases will also be covered. 4 lectures.

FSN 529. Metabolic and Molecular Aspects of Vitamins. 2 units
Term Typically Offered: TBD
Prerequisite: FSN 329 and graduate standing.
Advanced topics in the molecular roles and functions of vitamins. Classic and recent findings related to mechanisms of vitamin-regulated gene expression. Specific aspects of vitamin deficiencies and toxicities will also be covered. 2 lectures.

FSN 530. Metabolic and Molecular Aspects of Minerals. 2 units
Term Typically Offered: TBD
Prerequisite: FSN 329 and graduate standing.
Advanced topics in the molecular roles and functions of minerals. Classic and recent findings related to mechanisms of mineral-regulated gene expression. Specific aspects of mineral deficiencies and toxicities will also be covered. 2 lectures.

FSN 541. Dietetic Internship Seminar. 2 units
CR/NC
Term Typically Offered: TBD
Prerequisite: Acceptance into the Cal Poly, San Luis Obispo Dietetic Internship, a special session program in Extended Education.
A forum for dietetic interns to make presentations and share their experiences in their supervised practice. Guest presentations on current issues in nutrition therapy, foodservice management and community nutrition. Total credit limited to 6 units, with a maximum of 2 units per quarter. Credit/No Credit grading only. 2 seminars.

FSN 564. Chemistry of Food Systems. 4 units
Term Typically Offered: F
Prerequisite: FSN 364 or graduate standing.
Integration of food chemistry concepts to develop an in-depth understanding on the role of structural and functional properties of components in food systems. Research topics for components in specific food systems. 4 lectures.
FSN 570. Selected Topics in Food Science and Nutrition. 1-4 units
Term Typically Offered: TBD
Prerequisite: Graduate standing or consent of instructor.

Directed group study of selected topics for advanced students. Open to undergraduate and graduate students. The Schedule of Classes will list title selected. Total credit limited to 12 units. 1 to 4 seminars.

FSN 571. Selected Advanced Laboratory in Food Science and Nutrition.
1-4 units
Term Typically Offered: TBD
Prerequisite: Consent of instructor.

Directed group laboratory study of selected topics for advanced students. Open to undergraduate and graduate students. Class Schedule will list topic selected. Total credit limited to 8 units. 1-4 laboratories.

FSN 574. Food Process Failure Analysis. 4 units
Term Typically Offered: TBD
Prerequisite: FSN 335 or graduate standing; FSN 444; and FSN 474.

Analysis of root causes and impacts of failure scenarios within the food industry. Corrective actions relative to safety, quality, and economics of the affected products will be assessed. 3 lectures, 1 activity.

FSN 575. Advanced Food Safety. 4 units
Term Typically Offered: W
Prerequisite: FSN 375 or graduate standing; and MCRO 421.

In-depth analysis of food safety issues including outbreaks, risk assessment, Food Safety Modernization Act (FSMA), product and process assessments. Special emphasis on the critical evaluation, development and execution of food safety research. 3 lectures, 1 laboratory.

FSN 581. Graduate Seminar in Food Science and Nutrition. 1-3 units
Term Typically Offered: TBD
Prerequisite: Graduate standing or consent of instructor.

Current findings and research problems in the field and their application to food science and nutrition. Class Schedule will list topic selected. Total credit limited to 6 units with approval of advisor. 1-3 seminars.

FSN 599. Thesis. 1-6 units
Term Typically Offered: F, W, SP
Prerequisite: Graduate standing and consent of instructor.

Individual research in food science and nutrition under faculty supervision leading to a graduate thesis of suitable quality. Total credit limited to 6 units.