**FOOD SCIENCE AND NUTRITION (FSNU)**

**FSNU 2300 Nutrition Foundations — 4 credits**
Introduction to the scientific principles of nutrition, including macro- and micro-nutrient functions and effects of nutrient deficiency and excess. This course emphasizes the role food plays in the health of individuals and families throughout the life cycle. The course includes a personal diet analysis, healthy diet planning, concepts of weight management/metabolism, and the relationship between food and the environment. Offered in the College for Women.

**Recommended:** High school biology and chemistry.

**FSNU 2800 Intercultural and Community Nutrition with Lab — 4 credits**
This course covers food patterns and foodways of various cultures around the world and in our community. Agricultural, social, nutrition, economic, religious, and cultural issues are discussed with a cultural sensitivity lens. Emphasis is placed on understanding the populations served through nutrition policy, community programming, and healthcare systems. Lecture and laboratory. Offered in the spring of even years.

**FSNU 2900 Food Science — 4 credits**
This course provides an introduction to food science and technology. The chemical and physical composition of foods will be examined along with the major principles of food processing, preservation and storage. Students will gain hands-on experience applying the technology of various food products in the lab, and conducting an investigation of current issues related to food and health through special project work. Lecture and laboratory. Offered in the College for Women.

**Prerequisite:** CHEM 1010 or CHEM 1110 or equivalent.

**FSNU 3000 Nutrition — 4 credits**
Scientific principles of nutrition, including the study of nutrient functions and interrelationships, effects of deficiencies, dietary allowances and application to food selection and meals of individuals and families throughout the life cycle are covered.

**Prerequisite:** CHEM 1010 or CHEM 1120 with a grade of C- or above.

**Prerequisite with concurrency:** BIOL 1720 or BIOL 2520 with a grade of C- or above, or permission of instructor.

**FSNU 3150 Food Systems and Policy — 4 credits**
The course provides a critical look into our food system and how food evolves from seed to grocery store shelves. It evaluates the way nutrition concepts and interventions associated with each stage of the lifespan from pre-conception through older adulthood. Principles of epidemiology, the healthcare system, and the political process are explored. Planning, assessment, evaluation and legislative regulation of food and nutrition programs in the community are discussed. Students volunteer in and observe food and nutrition programs in the community. Lecture and laboratory. Offered in the College for Women.

**Prerequisite:** FSNU 2900.

**FSNU 3350 Lifelong Nutrition — 4 credits**
This course includes an in-depth exploration into nutrition recommendations and concerns throughout the lifecycle. Topics covered include nutrition for pre-conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood, and aging. This course also covers discussion of common chronic diseases and appropriate nutrition interventions. Offered in the College for Women.

**Prerequisite:** FSNU 2300.

**FSNU 3550 Food and Nutrition Management — 4 credits**
Application of principles of food production and service to institutional practice: considerations of quality and quantity in volume feeding, methods of purchasing food for institutions, menu planning, recipe standardization, and portion control. Lecture, laboratory and field trips. This course includes approximately 45 hours of hands-on training in a variety of institutional settings. Offered in the College for Women.

**Prerequisite:** FSNU 2900.

**FSNU 3770 Nutrition Education and Counseling — 4 credits**
This course is designed to develop effective skills for presentations to a variety of audiences throughout the life cycle. Educational theory and techniques are emphasized. Students also learn and practice techniques for interviewing, counseling and group process. Use of media and preparation of written educational materials are included. Students design, develop and present various forms of nutrition education for a variety of audiences. Offered in the College for Women.

**Prerequisite:** FSNU 2300, Junior or Senior standing.

**FSNU 4100 Community Lifespan Nutrition — 4 credits**
Study of the role of nutritionists in the community and the health and nutritional needs of individuals and groups within the different stages of the lifecycle. Nutrition concepts and interventions associated with each stage of the lifespan from pre-conception through older adulthood. Principles of epidemiology, the healthcare system, and the political process are explored. Planning, assessment, evaluation and legislative regulation of food and nutrition programs in the community are discussed. Students volunteer in and observe food and nutrition programs in the community. Lecture and laboratory. Offered in the College for Women.

**Prerequisites:** FSNU 2900, FSNU 2300, PSYC 2025.

**FSNU 4220 Sensory Evaluation — 2 credits**
This course involves sensory evaluation, theory and practice, psychophysics of the senses, sensory tests and data analysis. Oral presentations and written papers are required. Lecture and laboratory. Offered as needed.

**Prerequisites:** FSNU 2900 and a statistics course.
FSNU 4270 Current Issues in Foods and Nutrition — 4 credits
The focus of this course will be to research, evaluate, debate and think critically about the rapidly changing current issues in food, nutrition science, and health. This course will look at these issues from a variety of professional perspectives to gain a holistic view of the factors that influence and force change. Using contradictory statements and data from the scientific and lay sources we will carefully draw and defend arguments, in small and large debate formats, using multiple technologies to create engaging and informative content. Offered in the College for Women.
Prerequisite: FSNU 2900.
Prerequisite with concurrency: FSNU 2300.

FSNU 4300 Advanced Nutrition — 4 credits
This course includes digestion, transport and absorption of nutrients; hormonal aspects of nutrition; biochemical and physiological functions of nutrients; body composition, obesity and fad diets; herbs and supplements; critical analysis techniques for evaluation of scientific and popular literature in nutrition. Offered in the College for Women.
Prerequisite: FSNU 2300.

FSNU 4310W Experimental Foods and Nutrition with Lab — 4 credits
This course provides an introduction to the use of statistics and computers in food and nutrition research. Students will develop an original research project using sensory, physical and survey measurements. Oral scientific presentations and written papers required. The course contains both lecture and laboratory components. Offered in alternate years. Offered in the College for Women.
Prerequisites: FSNU 2900 and one statistics course.

FSNU 4350 Medical Nutrition Therapy I — 4 credits
This course involves principles of nutritional care related to clinical situations, including nutrition as therapy in selected diseases and application of these principles to daily living for prevention of disease and maintenance of health. Lecture and laboratory. Offered in the College for Women.
Prerequisite: FSNU 2300.
Prerequisites with concurrency: CHEM 2400 or CHEM 4400, or permission of instructor.

FSNU 4375 Medical Nutrition Therapy II with Lab — 4 credits
In this course students will discuss principles of nutritional care related to clinical situations, including nutrition as therapy in selected diseases and application of these principles to daily living for prevention of disease and maintenance of health. Lecture and laboratory. Offered in the College for Women.
Prerequisites: FSNU 2300, FSNU 4350.

FSNU 4602 Internship — 2 credits
Structured out-of-class learning experience that takes place on or off campus and includes a substantial work component. An internship involves students in a particular profession in an exploratory way to test career interests and potential. To initiate an internship experience, meet with the internship coordinator in the Career Development Office.
Prerequisites: Faculty sponsorship and approval by department chair.

FSNU 4604 Internship — 4 credits
Structured out-of-class learning experience that takes place on or off campus and includes a substantial work component. An internship involves students in a particular profession in an exploratory way to test career interests and potential. To initiate an internship experience, meet with the internship coordinator in the Career Development Office.
Prerequisites: Faculty sponsorship and approval by department chair.

FSNU 4684 Directed Study — 4 credits
Directed study is provided for students whose unusual circumstances prohibit taking a regularly scheduled course but who need the material of that course to satisfy a requirement. Availability of this faculty-directed learning experience depends on faculty time and may be limited in any given term and restricted to certain courses.
Prerequisites: Faculty, department chair and dean approval.

FSNU 4752 Practicum: Diabetes Education — 2 credits
This is an interdisciplinary study of diabetes mellitus. Attend the workshop at the International Diabetes Center and complete several written assignments. Offered in the College for Women.
Prerequisites: FSNU 2300, faculty and department chair approval.

FSNU 4754 Practicum — 4 credits

FSNU 4952 Independent Study — 2 credits
Independent study offers students the opportunity for specialized research not covered in a course offering, by the action project or thesis. Students work with a faculty advisor to develop a learning contract, which specifies the content and objectives of the study as well as the requirements and procedures for evaluation. The amount of credit earned for the study also is included in the learning contract.
Prerequisites: Permission of the faculty and department chair or program director.

FSNU 4954 Independent Study — 4 credits
Independent study offers students the opportunity for specialized research not covered in a course offering, by the action project or thesis. Students work with a faculty advisor to develop a learning contract, which specifies the content and objectives of the study as well as the requirements and procedures for evaluation. The amount of credit earned for the study also is included in the learning contract.
Prerequisites: Permission of the faculty and department chair or program director.

FSNU 4992 Topics — 2 credits
The subject matter of the course is announced in the annual schedule of classes. Content varies from year to year but does not duplicate existing courses.

FSNU 4994 Topics — 4 credits
The subject matter of the course is announced in the annual schedule of classes. Content varies from year to year but does not duplicate existing courses.