

Dietetics - Graduate Program

Interinstitution Graduate program

Participating institutions: Iowa State University; Colorado State University; Kansas State University; Michigan State University; Montana State University; North Dakota State University; Oklahoma State University; South Dakota State University; University of Kansas Medical Center; University of Nebraska.

Dietetics is an interinstitutional distance education program offered through the Web. The student selects a home institution, which grants the degree. After admission at the home institution, the student takes courses from each of the ten institutions: Iowa State University, Colorado State University, Kansas State University, Michigan State University, Montana State University, North Dakota State University, Oklahoma State University, South Dakota State University; Kendra Kattelman, University of Kansas Medical Center, and University of Nebraska.

At Iowa State University, Dietetics is a specialization within the Master of Family and Consumer Sciences degree program (MFCS-Diet) that consists of 36 credits. This is a non-thesis option and a special project or creative component is required. Students typically complete the program in 6-8 semesters while employed full-time. Admission is limited to those who are Registered Dietitians or Registration-eligible Dietitians. A computer with minimum specifications, web access, and an email address are required for completing the program.

Admission procedures: Admission to the MFCS-Diet program requires exactly the same procedures as admission to the Graduate College. See. Graduate College section of this catalog.

Registration: Students choosing to receive their degree from Iowa State University complete all the admissions, registration and fee payment processes through ISU.

The department cooperates in the interinstitution Master of Family and Consumer Sciences program to offer a specialization in Dietetics. The Master of Family and Consumer Sciences-Dietetics is designed for the Registered Dietitian or Registration-eligible Dietitian. The 36 credit program is non-thesis and seeks to develop research skills, stimulate independent thought, and provide up-to-date knowledge in foods, nutrition, and foodservice/business management. This program prepares individuals to integrate and apply the principles from the biomedical sciences, human behavior, and management to design and lead effective food and nutrition programs in a variety of settings. Students may build a program of study from offerings of the partner institutions such as human nutrition, nutrient metabolism, biostatistics, health promotion/disease prevention, foodservice systems management, food science, lifespan nutrition, wellness, entrepreneurship, nutrition education, nutritional assessment and food safety. The online program is tailored for credentialed, practicing dietetics professionals who seek to enhance their knowledge in a specific area of dietetics practice or retool for new career opportunities in dietetics practice.

Courses primarily for graduate students, open to qualified undergraduates:

DIET 511. Research Methods.

(3-0) Cr. 3. F.S. *Prereq: enrollment in GP-IDEA MFCS in Dietetics*
An overview of diverse research approaches focusing on methods for collecting and analyzing quantitative and qualitative data. www only. Only one of DIET 511 or FCEdS 511 may count toward graduation.

DIET 524. Financial Management and Cost Controls in Dietetics.

(3-0) Cr. 3. SS. *Prereq: Enrollment in GP-IDEA MFCS in Dietetics*
Overview of the fundamental knowledge of financial management, managerial accounting, and operational cost controls for dietetics professionals. Topics include a review of managerial accounting concepts for not-for-profit organizations and for-profit organizations based on the Uniform System of Accounts, value and risk analysis, budgeting, asset management, franchising and management contracts, cost-volume-profit analyses, and operational applications for financial performance.

DIET 527. Food Writing.

(3-0) Cr. 3. F. *Prereq: Enrollment in GP-IDEA MFCS in Dietetics*
Understanding and appreciating how to communicate effectively in writing about food and food-related topics. Hands-on experience in research and writing for various audiences and types of media.

DIET 530. Nutrition in Wellness.

(3-0) Cr. 3. SS. *Prereq: enrollment in GP-IDEA MFCS in Dietetics*
Addresses wellness promotion through nutrition. Nutritional risk and protective factors will be examined in relation to public health and individual nutrition. www only.

DIET 532. Maternal and Child Nutrition.

(3-0) Cr. 3. SS. *Prereq: enrollment in GP-IDEA MFCS in Dietetics*
Critical examination of behavioral, physiological, and public health issues impacting dietary and nutritional factors that support normal growth and development. Content focuses on early stages of the life cycle: gestation, lactation, infancy, preschool, school age, and adolescence. www only.

DIET 534. Nutrition Education in the Community.

(3-0) Cr. 3. SS. *Prereq: enrollment in GP-IDEA MFCS in Dietetics*
Principles and practices of teaching individuals and groups to translate nutrition knowledge into action. Emphasis on research in and evaluation of nutrition education. www only.

DIET 538. Nutrition: A Focus on Life Stages.

(3-0) Cr. 3. SS. *Prereq: enrollment in GP-IDEA MFCS in Dietetics*
Explores influence of normal physiological stresses on nutritional needs throughout the life span. Evaluates dietary intake and identification of appropriate community nutrition services in on-line discussions. Specific considerations, such as the influence of age and cultural heritage, are incorporated. www only.

DIET 540. Nutrition and Physical Activity in Aging.

(Cross-listed with GERON). (3-0) Cr. 3. Alt. F., offered 2012.
WWW only. Basic physiologic changes during aging and their impacts in health and disease. The focus will be on successful aging with special emphasis on physical activity and nutrition. Practical application to community settings is addressed.

DIET 544. Pediatric Clinical Nutrition.

(3-0) Cr. 3. F. *Prereq: enrollment in GP-IDEA MFCS in dietetics*
Examines 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 in this population including inborn errors of metabolism, food hypersensitivity, obesity, and diseases of the major organ systems. www only.

DIET 546. Phytochemicals.

(3-0) Cr. 3. F. *Prereq: enrollment in GP-IDEA MFCS in Dietetics*
Overview of phytochemicals (non-nutritive biologically active compounds) from fruits, vegetables, cereals and oilseeds. Covers recent findings of chemistry, physiological functions, and potential health implications of phytochemicals. www only.

DIET 548. Professional Development Assessment.

(1-0) Cr. 1. F.S.SS. *Prereq: Enrollment in GPIDEA MFCS in Dietetics*
Web-based course providing information and practice for student to assess and evaluate own professional development and continuing professional education needs. Completion of professional 5-year plan. Offered on a satisfactory-fail basis only.

DIET 550. Finance and Cost Controls.

(3-0) Cr. 3. F. *Prereq: enrollment in GP-IDEA MFCS in Dietetics*
Overview of the fundamental knowledge of hospitality managerial accounting, cost controls, and financial management. Important topics include financial statement analysis, cost concepts, cost-volume-profit analysis, calculating and controlling food and beverage costs, pricing, and capital budgeting. www only.

DIET 554. Statistics.

(3-0) Cr. 3. S.SS. *Prereq: enrollment in GP-IDEA MFCS in Dietetics*
Tools used to make statistical decisions. Major emphasis on explanation and understanding of important concepts involved; basic theme is understanding of data and methods used to analyze such data. www only. Only one of DIET 554 or Stat 401, 495, 542 may count toward graduation by students in the GPIDEA Dietetics program.

DIET 556. Advanced Nutrition: Micronutrients.

(3-0) Cr. 3. S. *Prereq: BBMB 404 or BBMB 420 or equivalent; enrollment in GP-IDEA MFCS in Dietetics*
Integration of the molecular, cellular and physiological aspects of vitamins and minerals in mammalian systems. Interactions among nutrients, metabolic consequences of deficiencies or excesses, relevant polymorphisms, major research methodologies, and current topics related to micronutrients and non-nutrient components. www only. Only one of DIET 556 or NUTRS 502 may count toward graduation.

DIET 558. Advanced Nutrition: Macronutrients.

(3-0) Cr. 3. F. Prereq: *BBMB 404 or BBMB 420 or equivalent; enrollment in GP-IDEA MFCS in Dietetics*

Integration of the molecular, cellular and physiological aspects of macronutrients and energy metabolism in mammalian systems. Dietary energy, carbohydrates, fiber, lipids, proteins, their interactions, metabolic consequences, and major research methodologies. www only. Only one of DIET 558 or NUTRS 501 may count toward graduation.

DIET 560. Medical Nutrition and Disease.

(3-0) Cr. 3. F.S.SS. Prereq: *enrollment in GP-IDEA MFCS in Dietetics*

Pathophysiology of selected acute and chronic disease states and their associated medical problems. Specific attention directed to medical nutrition needs of patients in the treatment of each disease state. www only. Only two of DIET 560 or NUTRS 561, 564 may count toward graduation.

DIET 565. Malnutrition in Low-Income Countries.

(3-0) Cr. 3. SS. Prereq: *enrollment in GP-IDEA MFCS in Dietetics*

Identification and assessment of malnutrition in low-income countries. Social, cultural, political, economic, and geographic determinants of malnutrition. Protein-energy malnutrition, vitamin and mineral deficiencies. Intervention approaches; international efforts and local sustainability. www only.

DIET 566. Nutrition Counseling and Education Methods.

(Dual-listed with DIET 466). (Cross-listed with NUTRS). (2-2) Cr. 3. F.S. Prereq: *Graduate student status*

Application of counseling and learning theories with individuals and groups in community and clinical settings. Includes discussion and experience in building rapport, assessment, diagnosis, intervention, monitoring, evaluation, and documentation. Literature review of specific counseling and learning theories.

DIET 567. Nutrition for Dietitians.

(3-0) Cr. 3. Alt. F., offered 2011. Prereq: *DIET 360; BBMB 301, undergraduate course in physiology; enrollment in GP-IDEA MFCS in Dietetics*

Study of the current scientific literature to evaluate current trends and issues in nutrition science and dietetic practice. Emerging areas of research investigating the role of nutrients in health and disease in humans will be explored. Emphasis on the impact of emerging research on nutrition recommendations and interventions designed to promote human health. www only.

DIET 568. Entrepreneurship in Dietetics.

(3-0) Cr. 3. F. Prereq: *enrollment in GP-IDEA MFCS in Dietetics*

Definition and discussion of entrepreneurship and its importance to economic and business environment. www only.

DIET 569. Dietary and Herbal Supplements.

(3-0) Cr. 3. SS. Prereq: *Enrollment in GP-IDEA MFCS in Dietetics*

Develop skills to partner with patients in making dietary supplement decisions. Explore the safe, efficacious use of botanicals and supplements in nutritional support of aging, maternal health and wellness. Discussions on supplementation in the prevention and treatment of chronic disease include: arthritis, cancer, cardiovascular, diabetes, digestive, liver and renal disorders.

DIET 570. Nutrition and Human Performance.

(3-0) Cr. 3. S. Prereq: *enrollment in GP-IDEA MFCS in Dietetics*

Develop an understanding of nutrition based on knowledge of the biochemical and physiological process and functions of specific nutrients in meeting nutritional requirements. Emphasis on the relationship of optimal nutrition and physical efficiency and performance. www only.

DIET 572. Environmental Scanning and Analysis of Current Issues in Dietetics.

(3-0) Cr. 3. F.S. Prereq: *enrollment in GP-IDEA MFCS in Dietetics*

Overview of current topics, issues, and trends in dietetics practice. www only.

DIET 573. Administration of Health Care Organizations.

(3-0) Cr. 3. SS. Prereq: *enrollment in GP-IDEA MFCS in Dietetics*

A comprehensive review of today's health care institutions and their response to the economics, social, ethical, political, legal, technological, and ecological environments. www only.

DIET 595. Proposal and Grant Writing for the Working Professional.

(3-0) Cr. 3. F. Prereq: *enrollment in GP-IDEA MFCS in Dietetics*

Grant proposal preparation experiences including writing and critiquing of proposals and budget planning. Designed for the working professional. www only.

DIET 599. Creative Component.

Cr. arr. Repeatable. F.S.SS. Prereq: *Enrollment in GPIDEA MS Dietetics*

For non-thesis option only.