FAMILY AND CONSUMER SCIENCES

College of Social Sciences and Interdisciplinary Studies

Department Description

The Department of Family and Consumer Sciences offers four distinct programs and one concentration. The focus of these programs is to enhance the skills and knowledge that will promote the well-being of individuals, families, and communities. Our programs and profession focus on individuals and families in order to achieve an optimum balance between people and their environments. The mission of Family and Consumer Sciences is to empower individuals and families to function interdependently in a global society.

Family and Consumer Science Education (Pre-Credential Single Subject Matter Program)

The major meets the California Career Technical Education (CTE) Curriculum Standards and Home Economics Teacher Preparation Standards of Quality and Effectiveness for Subject Matter Programs.

Graduates are prepared to enter the Single Subject Teaching Credential Program required to teach Family and Consumer Sciences/Home Economics in middle and high schools. Coursework includes Nutrition and Food, Fashion Merchandising & Management, and Family Studies & Human Development combined with an internship in a middle or high school in the Sacramento area.

Family Studies and Human Development

The major prepares students for careers in various human service fields. The program emphasizes an asset-based approach to understanding lifespan human development, family systems and family diversity. The major is approved by the National Council on Family Relations (NCFR) for academic programs in Family Life Education.

Fashion Merchandising and Management

The major prepares students for careers in the global fashion industry, including management, marketing, buying, advertisement, promotion, manufacturing, sourcing, distribution, retailing, and many more. The program also emphasizes the contemporary and historical ways of meeting the economic, physiological, aesthetic, psychological, sociological, and cultural needs of consumers relative to fashion products. The program offers a vast array of courses that cover different areas of the fashion industry. Students learn the basics of fashion by taking foundation courses. Upper division marketing classes allow students to become more familiar with the business side of fashion. Courses focusing on the basic design skills introduce students to the creative side of the industry. This program provides a well-rounded education that prepares students for jobs in any area of the fashion industry.

Nutrition, Food and Dietetics

The major prepares students for careers in the field of nutrition, food management, community nutrition, and food sustainability. The program emphasizes the roles of nutrition and food in individual and family health, cultural and behavioral influences on food selection, and the management of commercial and noncommercial food systems.

The optional concentration in Dietetics meets requirements that prepare students to become a registered dietitian nutritionist (RDN), as well as to prepare students for a variety of careers in clinical nutrition, community nutrition, private practice, food service administration, and food science.

The Dietetic Internship administered by the Department is a post-baccalaureate, 42-week internship accepting 10 interns annually. This program provides full-time supervised practice at a variety of health care and community facilities.

The minor provides students an understanding of the role food and nutrition play in health and disease prevention. The minor could be a relevant addition to many majors.

Degree Programs

BS in Family and Consumer Science Education (Pre-Credential, Single Subject Matter Program)

Minor in Family and Consumer Sciences

BS in Family Studies and Human Development

BS in Fashion Merchandising and Management

BS in Nutrition and Food (Dietetics)

Minor in Nutrition and Food

Accreditation

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Nutrition and Food Dietetics Concentration is also individually accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), the accrediting agency for the Academy of Nutrition and Dietetics. The department also administers a Dietetics Internship (DI) program accredited by ACEND.

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s
requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

**Special Features**

- Faculty in Family and Consumer Sciences come from diverse educational backgrounds and expertise. Faculty members promote and integrate a holistic approach to understanding individuals and families while preparing students for professional careers or graduate study.
- All programs in the department are committed to reflecting in our study and in our practices the diverse populations with which our students will work, including diversity in ability, age, educational level, ethnicity, gender identity, immigration status, nationality, race, religion, sexual orientation, and socioeconomic status.
- The Department is equipped with laboratories for textiles, food, and teacher credentialing preparation courses.
- Support facilities include a Costume Collection gallery. Visit the virtual gallery at [http://www.csus.edu/facs/](http://www.csus.edu/facs/).
- The Didactic Program in Dietetics (DPD) and the Dietetics Internship (DI) programs are accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND).
- The Family Studies and Human Development program is approved by the National Council on Family Relations for academic programs in Family Life Education.
- The Pre-Credential Single Subject Matter program in FACS Education is approved by the California Commission on Teacher Credentialing.
- Service Learning courses (FSHD 162, NUFD 117), Academic Internships (FACS 195A, FACS 195C, FSHD 195F), Education practica and other opportunities for Community Engaged Learning are a hallmark of our degree programs. These provide an opportunity for students to work under the supervision of a professional in business, education, government, or public service settings. Internships are planned a semester in advance with an adviser.
- The Department sponsors four student organizations for students to participate in professional development and community service related to their major programs.
- In addition to serving majors and minors, the Department provides several general education courses for other majors including classes that meet the graduation requirements for the writing intensive, and race and ethnicity categories.

**Career Possibilities**

**Fashion Merchandising and Management:** Buyer · Merchandiser · Marketing Manager · Retail Manager · Regional Manager · District Manager · Distributor · Sales Representative · Product Analyst · Sourcing Analyst · Quality Control Analyst · Inventory Specialist · Apparel Engineer · Fashion Coordinator · Stylist · Visual Merchandiser · Fashion Designer · Fashion Editor · Fashion Forecaster · Fashion Reporter · Magazine Editor

**Family Studies and Human Development:** Consumer and Family Resources · Community-Based Social Services · Community Education · Family Life Educator · Family Planning · Family Support Services Provider · Health Care and Family Wellness · Marriage and Family Enrichment · Parenting Educator · Prenatal and Maternity Services · Sexuality Educator · Youth Adviser · Child Life Specialist

**Nutrition and Food:** Nutrition and Health Educator · Community/Public Health Nutritionist · Food Service Manager/Hospitality · Foodservice Inspector · State Nutrition Program Assistant, Consultant, or Analyst · School Nutrition Services Specialist · Entrepreneur/Consultant · Nutrition Program Representative · University/Medical Research Centers.

**Additional careers in Dietetics:** Registered Dietitian Nutritionist · Clinical Dietetics-Hospital/Health Care or other Health Care Facilities · Private Practice · Sports Nutrition · Corporate Wellness · University/Medical Center Research

**Family and Consumer Sciences Education (Pre-Credential Single Subject Program):** High school and middle school teacher · Extension specialist · Consultant in Home Economics Careers and Technology · Life Coach. Resources Specialist · Entrepreneur · Consumer Educator · Credit Counselor · California State Department of Education · FCCLA State Adviser.

**Contact Information**

Lynn Hanna, Department Chair
Jeannie Hansen, Administrative Support Coordinator II
Mariposa Hall 3000
(916) 278-6393
[http://www.csus.edu/facs/](http://www.csus.edu/facs/)

**Faculty**

BRAUNSTEIN, NADINE
BUCHAN, WENDY
COOK, JERRY
CORLEY, SALLIE J.
GONZALEZ, HENRY
HANNA, LYNN
HYSON, DIANNE
KANG, MINJEONG
MALROUTU, YAMINI LAKSHMI
MOYLAN, J. ANN
MULASI, URVASHI
SHEN, DONG
SHILTS, MICAL
THOMPSON, KELLY
WIE, SEUNGHEE

**FACS 100. Research: Methods and Application in Family and Consumer Sciences.**

**3 Units**

**Prerequisite(s):** 6 FACS units completed. FACS majors only

**Term Typically Offered:** Fall, Spring, Summer

Study of methods and application of research in the field of Family and Consumer Sciences. Focus on scientific inquiry, methodology, evidence-based practice, interpretation of research results, program and project evaluation, and professional communication. Includes the examination of ethical practices, professional presentation skills, and technical writing skills.
FACS 128. Consumer Technologies and Environments. 3 Units
Term Typically Offered: Fall, Spring

Study and analysis of technologies, durable goods, and environments in home and workplace and their impact on quality of life. Principles of equipment and product design, selection and safety; space planning; consumer decision making. Examination of issues related to energy management, shelter, housing and access to technology. Lecture, field trips two hours; activity two hours.
Field trip(s) may be required.

FACS 140. Family Resource Management. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Management of resources in family systems. Interaction of families with other societal and environmental systems in acquiring and using resources to meet goals and other demands.

FACS 141. Family Finance. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Economic problems of and financial management by the individual and family. Topics include: income patterns, inflation, credit, contracts, housing, financial services, insurance, taxes, investments, retirement income planning.

FACS 142. Consumer Issues. 3 Units
Term Typically Offered: Fall, Spring

Study of effect of consumer movements on protection of consumer rights. Current issues include marketplace fraud and redress; consumer information, education, and decision-making; privacy and environmental concerns; and advocacy for vulnerable consumer groups.

FACS 143. Consumer Policy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 or instructor permission.
Term Typically Offered: Fall, Spring

Examination of consumer policy and regulations. Emphasis on consumer products, including food and drugs, housing, and credit. Strategies for promoting consumer advocacy. Lecture, discussion, field trips. Field trip(s) may be required.

FACS 147. Financial and Legal Aspects of Aging. 3 Units
Prerequisite(s): FACS 141 or instructor permission.
Term Typically Offered: Fall, Spring

Economic status, financial and consumer issues, legal rights and responsibilities and resource management for aging persons. Emphasis on financial planning for retirement and estate planning. Lecture, discussion, case studies.

FACS 149. Family Financial Counseling. 3 Units
Prerequisite(s): FACS 141 and senior status.
Term Typically Offered: Fall, Spring

Examination of professional issues in family financial planning including ethical considerations, regulations, communication skills, and professional responsibility. Development of skills needed by family financial counselors to counsel families with financial problems. Lecture, discussion, case study, counseling sessions.

FACS 156. Child Life and Family-Centered Care. 3 Units
Prerequisite(s): FACS 52 or CHDV 30 or CHDV 35 or a course in child development/human development, covering at least birth through adolescence with instructor permission.
Term Typically Offered: Summer only

Overview of the Child Life profession and child life practices. Focus on family-centered care for children in the healthcare environment and their families. Major course topics include: scope of practice in child life; ethical and professional practice; impact of illness, injury and health on patients and family; techniques and outcomes of preparation; therapeutic play; grief and bereavement.
Note: This course is designed to meet the specifications set forth by the Association of Child Life Professionals (ACLP) for the child life course required for certification as a Certified Child Life Specialist (CCLS)

FACS 166A. American Indigenous Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Application of research and theory specific to Latino/Chicano and American Indian families; strategies for applying this knowledge to areas of service, therapy, policy, and education. Lecture; discussion, Internet enhancement. Cross Listed: ETHN 166; only one may be counted for credit.

FACS 166B. Asian American Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Family is an adaptable and changing institution of society. The course will highlight research and theory on Asian American families with an emphasis on applying the information to areas of service, therapy, policy, and education. A comparison of the experiences between various Asian groups in the U.S. will be stressed. Lecture, discussion, Internet enhancement. Cross Listed: ETHN 167; only one may be counted for credit.

FACS 168. Senior Seminar. 3 Units
Prerequisite(s): 21 FACS units.
Term Typically Offered: Fall, Spring

Designed to synthesize knowledge in Family and Consumer Sciences. Examination of the concentration in the major and career exploration. Analysis of public policy and ethical issues, professionalism and leadership strategies. Includes personal and professional competency assessment and development of an academic and professional portfolio.

FACS 195A. Field Study: Selected Areas in Family and Consumer Sciences. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Guided study and experience in some area within Family and Consumer Sciences in which the student needs orientation or greater depth of study in a specialized field.
Credit/No Credit
FACS 195C. Internship. 1 - 3 Units
Prerequisite(s): Upper division status; instructor permission obtained in the preceding semester; 2.5 GPA or above.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved business, government, or service agency. Internships are offered for the purpose of increasing student understanding of the nature and scope of agency operations and giving students orientation in occupational specialties. Supervision is provided by authorized persons in the cooperating agencies and collaborative supervision is provided by the Family and Consumer Sciences faculty. Each student is required to maintain a record of activities and assignments and to prepare periodic reports.

Note: Student must make arrangements with a faculty member for a work program one semester prior to admittance to the course. A minimum of three hours per week per unit of credit is required.

Credit/No Credit

FACS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Departmental petition required.

Credit/No Credit

FASH 30. Fashion and Human Environment. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

This course serves as an introduction to the study of fashion and human environment and how fashion is perceived, marketed, and internalized within individuals across Western and non-Western cultures. A focus on both internal factors such as psychological, aesthetic and self-image, and external factors such as social, economic, cultural and political experiences will be addressed.

FASH 31. Textiles. 3 Units
Term Typically Offered: Fall only

Study of the characteristics of fibers, yarns, fabrics, and finishes. Emphasis on fabric performance, serviceability as they affect consumer satisfaction. Discussion of environmental concerns in the textile industry and laws relating to textile products.

FASH 32. Fundamentals of Apparel Production. 3 Units
Prerequisite(s): You must be a FACS major or FASH major to enroll in this course.
Term Typically Offered: Fall, Spring

Principles of fit and design. Applied basic construction with emphasis on standards and custom techniques. Characteristics of fabrics used; individual pattern adjustment. Lecture, discussion, demonstration one hour; laboratory four hours.

FASH 130. History Of Fashion. 3 Units
Term Typically Offered: Spring only

A study of dress in Western civilization from ancient times through the present. An interdisciplinary approach is used to examine how clothing communicates values displayed by the individual and functions as a reflection of trends in technology, political events, social ideals, and cultural developments such as art and music. Emphasis on the contributions and perspectives of women as well as differing roles in the production, dissemination, and consumption of clothing in relation to socioeconomic groups. Lecture, discussion.

FASH 131. Quality Analysis: Apparel. 3 Units
Prerequisite(s): FACS 31, FACS 32.
Term Typically Offered: Spring only

Analysis of apparel construction and production; current industrial and technological developments. Discussion of sizing and quality standards with emphasis on identification of fabrics, garment styles, finding and trims. Lecture, discussion, demonstration, field trips. Field trip(s) may be required.

FASH 133. Creative Principles of Apparel Design. 3 Units
Prerequisite(s): FACS 30 and FACS 31
Term Typically Offered: Fall only

Study of the functional and aesthetic elements of apparel design. The creative process and development of illustrative techniques. Development of creative approaches through projects of experimental, contemporary and traditional techniques with emphasis on elements of design, and selection and organization of colors, forms, materials and accessories for apparel production. Studio-activity six hours.

FASH 134. Introduction to Fashion Industry. 3 Units
Term Typically Offered: Fall, Spring

Designed to develop an awareness and understanding of the total fashion industry including past, present and future directions of costume design, manufacturing, textiles, retailers' publications, buying offices, advertising and the consumer.

FASH 135. Merchandise Buying. 3 Units
Prerequisite(s): FACS 134.
Term Typically Offered: Fall only

Detailed study of merchandising mix, purchasing plan, inventory plan, assortment plan, pricing, markdown, markup, and reports. Review of planning and control processes and the buyer's role in merchandise management and decision-making. Lecture, discussion.

FASH 136. Fashion Retailing. 3 Units
Prerequisite(s): FACS 134.
Term Typically Offered: Spring only

A in-depth exploration of fashion retailing from different perspectives, including organizational structure, store location and image with a focus on visual merchandising techniques, and fashion advertising and promotion strategies. Lecture-discussion.
FASH 137. Clothing, Society, and Culture. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Study of the relationship of humans and clothing within their cultural and social environment. Introduction to the fundamentals of social psychology in the examination of clothing and appearance. Clothing and appearance are studied as forms of nonverbal communication and as devices for expressing cultural and social values.

FASH 139. Textiles and Apparel in the Global Economy. 3 Units
Prerequisite(s): FACS 134 or MKTG 101.
Term Typically Offered: Spring only

Overview of global factors affecting the textiles and apparel industries and trade, the impact of textiles and apparel industries on the economy and consumers, the US textiles and apparel in the global economy, and strategies for balancing conflicting interest.

FASH 146. Fashion Entrepreneurship. 3 Units
Prerequisite(s): FASH 134.
Term Typically Offered: Fall only

This course addresses the essentials of entrepreneurship in the fashion industry, including management, market segmentation, financial statements, cash flow, accessing capital, e-commerce, omni-channel retailing, and challenges facing emerging enterprises. Special emphasis is placed on the essentials of planning that are vital to entrepreneurial success, as well as a step-by-step guide for starting a fashion business.

FASH 148. Fashion Law. 3 Units
Prerequisite(s): FACS 134
Term Typically Offered: Fall only

This course provides an overview of legal issues affecting the fashion industry and its professionals with an emphasis on fashion entrepreneurship, design, advertising and promotion, production, sourcing, marketing and retailing. Students will also learn about fashion regulatory and policy issues, intellectual property (copyright, trademarks, patents), contractual agreements, leasing, commercial operations and expansion, and the international development of a fashion business.

FASH 150. Family Stress and Coping: Multicultural Focus. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Study of the family as a small group with emphasis on understanding and interpreting the dynamics of family communication using various communication and social-psychological theories. Opportunity to develop an analytical framework. Cross Listed: COMS 108; only one may be counted for credit.

FASH 154. Issues in Parenting. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or FACS 52, or instructor permission
Term Typically Offered: Fall, Spring

Survey of historical and contemporary attitudes toward parenting. Review of research on child-rearing and parent-child relationships. Use of case studies to explore the influence of personality, developmental stage, family structure, ethnic and cultural factors on parenting. Lecture, Case Study.
Note: Previous or concurrent enrollment in CHDV 133 strongly recommended. Cross-listed: CHDV 154; only one may be counted for credit.
FSDH 155. Family Life Education. 3 Units
Prerequisite(s): FACS 50; and FACS 100 or CHDV 133; and senior standing.
Term Typically Offered: Fall, Spring

Historical and philosophical perspective on family life education across the lifespan. Practice in curriculum development including content, objectives, and teaching strategies.

FSDH 159. Adulthood and Aging in Human Development. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the interrelation between physical, psychological, and social development in the middle and later years of adulthood with attention to personal, family and community challenges and opportunities in their cultural context.

FSDH 162. Family Support Services. 3 Units
Prerequisite(s): A minimum of 12 units in FACS upper division family area courses.
Term Typically Offered: Fall, Spring

Application of family science to the development, implementation, and evaluation of family support services. Implications of research for practice with diverse families. Focus on developing skills in family-centered services, family-professional collaboration, and resource-based and asset-based intervention. Lecture two hours; fieldwork in the community three hours.

FSDH 195F. Practicum in Family Life Education. 1 - 3 Units
Prerequisite(s): senior status; GPA of 2.75 or above; NURS 160 or PSYC 134 or HLSC 134; and FACS 155.
Corequisite(s): If not taken as a prerequisite, FACS 155 may be taken concurrently with instructor’s approval.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved educational setting, service agency, business or government agency that provides family life education. Students will move from observing and assisting to developing, delivering and assessing lessons and programs in family life education. Students will gain experience applying educational and developmental theories, curriculum development, and teaching methods to delivering evidence-based and culturally sensitive lessons in the content areas of family life education: parent education, strengthening relationships, and/or sexuality education.
Note: Students must make arrangements with the supervising faculty member one semester prior to admittance to the course.

Credit/No Credit

NUFD 9. Food Safety and Sanitation. 3 Units
Prerequisite(s): NUFD and FACS majors only.
Term Typically Offered: Fall, Spring

Introduction to food safety principles and application, microbiology of food safety, infection control, and safety issues. Examination of laws and regulations related to consumer and food service operations. Preparation for national food service sanitation certification exam.

NUFD 10. Nutrition And Wellness. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Introduction to the basic principles of nutrition and the relationship of the human diet to health. Overview of the nutrition profession, the biological uses of nutrients and tools for dietary planning. Examination of specific issues such as weight loss, sports nutrition, food safety, the diet-disease relationship and global nutrition. Analysis of special nutritional requirements and needs during the life cycle. Evaluation of personal dietary habits using current dietary guidelines and nutritional assessment methods.

NUFD 11. Principles of Food Preparation. 3 Units
Prerequisite(s): FACS Nutrition and Food majors and minors and Dietetics Special majors only.
Term Typically Offered: Fall, Spring

Chemical, physical, sensory, and nutritional properties of food related to processes used in food preparation. Laboratory includes preparation and evaluation of individual food products. Lecture two hours; laboratory three hours.

NUFD 100. Research: Methods and Application in Nutrition and Food. 3 Units
Prerequisite(s): 6 NUFD and/or FACS units completed. NUFD majors only.
Term Typically Offered: Fall, Spring, Summer

Study of methods and application of research in the field of Nutrition & Food. Focus on scientific inquiry, methodology, evidenced-based practice, interpretation of research results, program and project evaluation, and professional communication. Includes the examination of ethical practices, professional presentation skills, and technical writing skills.

NUFD 107. Nutrition Education, Communication, and Counseling. 3 Units
Prerequisite(s): FACS 10 and an additional 3 FACS units
Term Typically Offered: Fall, Spring

Nutrition Education, communication and counseling techniques for use by the nutrition/dietetics professional. Introduction and application of various health behavior theories to promote change in diverse target audiences. Development of nutrition care plans, educational materials and activities for individual groups. Understand and apply methods of dietary assessment and motivational interviewing.

NUFD 110. Food Production and Sustainability. 4 Units
Prerequisite(s): FACS 9, FACS 10 and FACS 11
Term Typically Offered: Fall, Spring, Summer

Study and laboratory experience in planning, procuring, production, serving and evaluation of food for individuals, families, commercial, and institutional foodservice operations. Application of menu development techniques such as recipe modification and standardization to various target populations. Examination and application of marketing analysis and promotion. Understanding of current issues and sustainability topics related to food production.
NUFD 112. Current Topics in Nutritional Sciences. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: Further Studies in Area B (B5), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer
Examination of contemporary and controversial topics in nutrition science and how they relate to nutritional needs of different population groups. Analyzes the research process and evaluation of validity of nutrition research. Lecture, discussion.

NUFD 113. Nutrition And Metabolism. 3 Units
Prerequisite(s): FACS 10; BIO 10 or BIO 20; and CHEM 1A or CHEM 5 or CHEM 6A
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer
Study of the structures, types and metabolism of carbohydrates, lipids and proteins. Discussion of the biological roles of vitamins and minerals. Application and integration of metabolic knowledge with health promotion and chronic disease. Lecture, discussion.

NUFD 114. Cultural and Social Aspects of Food. 3 Units
Prerequisite(s): FACS 10; Only FACS majors/minors and Dietetic special majors may enroll in this course
Term Typically Offered: Fall, Spring
Examination of the cultural and social meanings of food, food behaviors and food systems. Emphasis on the regional, ethnic and religious influences on food habits. Study of food production, distribution, and consumption historically and cross-culturally; traditional dishes and nutritional contributions of diets of several cultures.

NUFD 115. Nutrition: Pre-conception Through Childhood. 3 Units
Prerequisite(s): NUFD 113
Term Typically Offered: Fall, Spring
Examination of nutritional requirements, metabolism and issues during stages of the early life cycle, including: pre-conception, pregnancy, lactation, infancy, and early and late childhood. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of maternal, infant, and child health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 116. Food Service Management. 3 Units
Prerequisite(s): FACS 110.
Term Typically Offered: Fall, Spring
Study of financial, facility, human resource management in commercial and noncommercial foodservice operations. Application of accounting principles, evaluation and selection of equipment, layout and design, and principles and practices of human resource management as an entry-level manager.

NUFD 117. Community Nutrition. 3 Units
Prerequisite(s): FACS 107; and either FACS 115 or FACS 119.
Term Typically Offered: Fall, Spring
Study of theory, concepts and philosophy affecting nutrition education and services in the community. Introduction to techniques of interviewing and counseling clients. Emphasis on culturally sensitive approaches to dietary assessment, counseling and community nutrition research. Use of a variety of teaching methods to improve nutrition status of the community. Field study involves practical experience in a community nutrition program. Lecture, discussion two hours; field study three hours.

NUFD 118A. Medical Nutrition Therapy I. 3 Units
Prerequisite(s): FACS 113, FACS 121, and BIO 131.
Term Typically Offered: Fall only
Study of the principles of medical nutrition therapy and the Nutrition Care Process. Use the Nutrition Care Process to make decisions, identify nutrition-related problems and determine and evaluate nutrition interventions with patients/clients with various conditions, including, cardiovascular and gastrointestinal disorders.

NUFD 118B. Medical Nutrition Therapy II. 3 Units
Prerequisite(s): FACS 118A, and CHEM 161 or instructor permission.
Term Typically Offered: Spring only
Continuation of principles, methods, and skills as developed in FACS 118A. Review of the etiology, development and dietary prevention and intervention of diseases influenced by nutrition such as: diabetes mellitus, hepatic and biliary diseases, cancer, renal disease, pulmonary disease, neurological disorders, HIV and AIDS, and inborn errors of metabolism. Lecture, discussion two hours; activity two hours.

NUFD 119. Nutrition: Adolescence Through Older Adulthood. 3 Units
Prerequisite(s): FACS 113
Term Typically Offered: Fall, Spring
Examination of nutritional requirements, metabolism and issues during stages of the life cycle, including: adolescence, adulthood, and old age. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of adolescent, adult, and elderly adult health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 120. Practical Application in Sports Nutrition. 3 Units
Prerequisite(s): FACS 113
Term Typically Offered: Fall, Spring
A survey course in nutrition with an emphasis on the relationship among diet, physical activity, and health; exploration of the changes in the metabolism of carbohydrates, lipids, protein and water; discussion of the function of vitamins and minerals; practical application of evidence-based dietary recommendations for common sports and varying physical intensity. Recommended for FACS majors. Lecture/Discussion. Three units.
NUFD 121. Nutrition Assessment, Methods and Support.  3 Units
Prerequisite(s): FACS 113
Term Typically Offered: Fall, Spring, Summer

Study of health care systems, the nutrition care process including assessment and support, and clinical implications of malnutrition. Topics include nutrition-focused physical examination, anthropometric, biochemical, dietary, body composition, and functional status evaluation and an understanding of advantages and disadvantages of assessment approaches. Application of various assessment methods and problem solving will be achieved through hands on training and clinical case studies in the context of malnutrition, nutrition support, cancer, eating disorders, and obesity.

NUFD 168. Senior Seminar.  3 Units
Prerequisite(s): 21 NUFD and/or FACS units
Term Typically Offered: Fall, Spring, Summer

Designed to synthesize knowledge in the Nutrition and Food discipline. Examination of the major and career exploration. Analysis of public policy and ethical issues, professionalism and leadership strategies. Includes a capstone project and development of an academic and/or professional portfolio.

NUFD 170. Advanced Nutrition and Metabolism.  3 Units
Prerequisite(s): CHEM 161, FACS 113, or instructor permission.
Term Typically Offered: Spring only

Study of the physiologic function of carbohydrates, lipids, protein and micronutrients including integrated metabolism, transport, regulation and relation to inborn errors/chronic disease. Introduction to gene-nutrient interaction. Cross Listed: BIO 170; only one may be counted for credit.

NUFD 199D. Dietetic Pathways.  1 Unit
Prerequisite(s): Senior standing as Dietetics emphasis.
Term Typically Offered: Fall only

Examination of dietetics career paths, processes and options. Students will learn about the profession of dietetics, including professionalism, the professional organization, pathways, mentoring and the code of ethics.

NUFD 221A. Advanced Clinical Nutrition A.  3 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Perform nutrition assessment of patients with complex medical conditions. Integration of pathophysiology into medical nutrition therapy. Development, supervision and evaluation of nutrition care plans. Select, calculate, monitor and evaluate nutritional support regiments for patients. Lecture, composition.

NUFD 221B. Advanced Clinical Nutrition B.  1 Unit
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Spring only

Continuation of principles and skills as developed in FACS 221A with application to other complex disease conditions and integration to multiple diseases. Application of genetics and pathophysiology to complex disease conditions. Demonstration of skills in assignments and presentations. Lecture, composition.

NUFD 222. Advanced Community Nutrition and Nutrition Education.  1 Unit
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Management of nutrition care for population groups across the lifespan. Perform outcome assessment/evaluation of community based food and nutrition programs. Nutrition policy development and evaluation based on community needs and resources. Learn advanced nutrition counseling techniques. Lecture, composition.

NUFD 223. Advanced Foodservice Management and Administration.  2 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Management of procurement, distribution, and service of food, and integration of financial, human, physical and material resources. Production of food that meets nutrition guidelines, cost parameters, and consumer acceptance; safety and sanitation issues related to food. Analysis of the operations of food service organization. Lecture, written assignments and practical experience.

NUFD 224. Advanced Community Nutrition and Policy.  3 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Spring only

Learn and apply the nutrition care process and to manage nutrition care for population groups. Conduct outcome assessment, planning, implementation, marketing and evaluation of nutrition programs. Apply the research process and critically evaluate nutrition research. Develop an understanding of nutrition policy and resources. Lecture-discussion.

NUFD 280. Teaching Methods in Family and Consumer Sciences/Home Economics.  3 Units
Prerequisite(s): Current enrollment in a teaching credential program or instructor permission.
Term Typically Offered: Summer only

This course is designed to provide students with materials, classroom management strategies and methods necessary to successfully teach Family & Consumer Sciences (FCS)/Home Economics Careers and Technology (HECT) at the secondary level. Teacher candidates will become acquainted with legislation, standards, teaching strategies, resources, research and student leadership programs.

NUFD 295. Field Study.  1 - 7 Units
Prerequisite(s): Enrolled in Graduate Studies in NUFD Dietetic Internship
Term Typically Offered: Fall, Spring

Guided study, observation or work experience in an area in which the graduate student needs advanced and specialized study. Note: May be repeated for credit

Credit/No Credit
NUFD 299. Special Problems. 1 - 3 Units

Prerequisite(s): Undergraduate major or minor in Family and Consumer Sciences.

Term Typically Offered: Fall, Spring

Any properly qualified student may pursue a problem after approval by his/her advisor and the staff member with whom he/she works.

Credit/No Credit