



FAMILY AND CONSUMER SCIENCES

BACHELOR OF ARTS
SUBJECT MATTER PROGRAM
MINOR

PROGRAM DESCRIPTION

Family and Consumer Sciences is devoted to the study of how individuals and families assess their needs and interact with their environment. This study includes an examination of how humans seek the fulfillment of their goals by identifying, developing, and managing the resources available to them. As a discipline, Family and Consumer Sciences synthesizes knowledge obtained from the natural and social sciences, arts and humanities and applies this knowledge toward the optimum functioning of the individual, the family, and society.

The CSUS Human Environmental Sciences Department offers the BA in Family and Consumer Sciences, a BA in Interior Design, a minor in Family and Consumer Sciences, and the Single Subject Matter Program for the California Teaching Credential. Students who complete the BA in Family and Consumer Sciences select a concentration that relates to their interest and professional objectives:

- Apparel Marketing and Design
- Family and Consumer Sciences
- Nutrition and Foods

Note: In the Spring semester of 1997 all Human Environmental Sciences courses will be changed to Family and Consumer Sciences courses. Contact the department office for current information.

FACULTY

Sallie Corley, *Department Chair*

Lee Anderson; Doris Beard; James Kenney; Ann Moylan;
Jo Ann Nicola; Jeline H. Ware

Kay Ford, *Department Secretary*

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FEATURES

Faculty in Family and Consumer Sciences come from diverse educational backgrounds and have a wide range of expertise. Several faculty have had international experiences which enhance the global approach to the study of families and consumers. Faculty represent all areas of study, thereby helping students to integrate the study of Family and Consumer Sciences as they prepare for professional careers or graduate study.

The Department sponsors four student organizations and provides an opportunity for students to participate in several related professional organizations, including the American Association of Family and Consumer Sciences, the American Dietetic Association, and the American Society of Interior Design.

A dietetics program is offered in cooperation with CSU, Chico. Upon completing the program, graduates are eligible for a dietetics internship or supervised practice program and subsequent certification as a registered dietitian.

Through its internship program, the Department provides an opportunity for students to work under the supervision of a professional. Internships (HUES 195C) are planned in advance with an advisor.

In addition to serving majors and minors, the Department provides general education courses and service courses to other majors and participates in the Child Development and Gerontology programs.

CAREER POSSIBILITIES

Apparel Designer or Manufacturer • Child Life Specialist • Consumer Affairs Director • Consumer Analyst • Dietitian • Energy Conservation Specialist • Extension Specialist • Family Life Educator • Fashion Coordinator • Financial Analyst/Planner • Food Service Manager • Interior Designer • Marketing Specialist • Merchandiser • Nutritionist • Nutrition and Health Counselor • Parenting Educator • Preschool/Day Care Director • Product Designer or Analyst • Purchasing Agent • Quality Control Analyst • Retail Manager or Buyer • Secondary Teacher • Sales Representative • Youth Advisor

MAJOR REQUIREMENTS • BA

Total units required for BA: 124

Total units required for Major: 54-59

Courses in parentheses are prerequisites.

Note: A minimum grade of "C-" is required for prerequisite courses.

Select one of the following concentrations:

1. Nutrition and Food
2. Apparel Marketing and Design
3. Family and Consumer Sciences

Nutrition and Food (59 units)

The concentration prepares students for careers in the field of nutrition, food management and food product development and sales. The program emphasizes the role of nutrition and food in individual and family health and wellness, an understanding of food theory and the social and cultural connotations of food use, and the management of commercial and noncommercial food systems.

Note: A dietetics program is offered as a special major in cooperation with CSU, Chico. A proposal for a Didactic Program in Dietetics at CSUS has been submitted to the American Dietetic Association and may be implemented Fall 1996. Students should contact a HUES advisor for information regarding the dietetics program.

A. Required Core Courses (26 units)

- (3) HUES 10 Nutrition & Wellness
- (3) HUES 11 Principles of Food Preparation
- (3) HUES 20 Design **OR**
HUES 31 Textiles
- (3) HUES 50 The Family & Social Issues
- (1) HUES 60 Professional Development in Family & Consumer Sciences
- (3) HUES 140 Family Resource Management (Passing score on WPE)
- (2) HUES 160 Senior Seminar (all other HUES core courses)
- (3) BIO 10 Basic Biological Concepts **OR**
BIO 20 Biology: A Human Perspective
- (5) CHEM 1A General Chemistry **OR**
CHEM 6A Introduction to General Chemistry

Note: CHEM 1A, 1B, and 20 are recommended for students anticipating graduate study in nutrition or completion of a dietetics program.

B. Required Upper Division Courses (19-20 units)

- (3) HUES 110 Food Management (HUES 11)
- (4) HUES 111 Experimental Study of Food (HUES 11 and CHEM 1A or 6A)
- (3) HUES 113 Nutrition & Metabolism (BIO 10 or 20; CHEM 1A or 6A. Passing score on WPE.)
- (9-10) Select three of the following:
 - HUES 114 Cultural Understanding Through Food
 - HUES 115 Nutrition in the Life Cycle (HUES 113)
 - HUES 116 Food Service Management (HUES 11)
 - HUES 117 Community Nutrition (HUES 113)
 - HUES 118A Principles of Clinical Nutrition (HUES 113 and BIO 31 or 131)
 - HUES 118B Diet Therapy (HUES 118A)
 - HUES 119 Nutrition & Aging (HUES 10 or 159)
 - HUES 170 Advanced Nutrition & Metabolism (CHEM 161 and HUES 113)

C. Electives (13-14 units)

(13-14) Select 13-14 units of elective courses, to include at least 7-8 units, with an advisor's approval. A total of 42 HUES units is required.

Apparel Marketing and Design (54 units)

The concentration prepares students for careers in the field of apparel, including design, manufacturing, distribution, marketing and consumption. The program emphasizes the contemporary and historical ways of meeting the economic, physiological, psychological and sociological needs of consumers relative to apparel and textile products.

A. Required Core Courses (21 units)

- (3) HUES 20 Design
- (3) HUES 31 Textiles
- (3) HUES 32 Fundamentals of Clothing
- (1) HUES 60 Professional Development in Family and Consumer Sciences
- (2) HUES 160 Senior Seminar
- (3) ECON 1B Introduction to Microeconomic Analysis **OR**
MGMT 120 Principles of Marketing
- (6) Select two of the following:
 - HUES 10 Nutrition & Wellness
 - HUES 50 The Family & Social Issues
 - HUES 140 Family Resource Management (Passing score on WPE)

B. Required Upper Division Courses (21 units)

- (3) HUES 130A History of Western Costume
- (3) HUES 130B Contemporary Costume
- (3) HUES 131 Evaluation of Apparel Manufacturing Techniques (HUES 31, 32)
- (3) HUES 134 Introduction to Fashion Marketing (ECON 1B or MGMT 120)
- (9) Select nine units from the following:
 - HUES 132A Apparel Design: Pattern Drafting (HUES 32 or permission of instructor)
 - HUES 133 Fashion Sketching
 - HUES 135A Analytical & Specification Buying (HUES 134)
 - HUES 135B Fashion Advertising & Promotion (HUES 134)
 - HUES 135D Visual Merchandising Essentials (HUES 20, 134; or permission of instructor)
 - HUES 136 Fashion Retailing (HUES 134)
 - HUES 137A Social Psychology of Apparel (SOC 1)
 - HUES 137B Color & Design in Apparel (HUES 20, 31)
 - HUES 138 Consumer Issues in Textiles & Clothing (HUES 31)
 - HUES 195C Internship

C. Electives (12 units)

(12) Select 12 units of elective courses, to include three HUES units with a minimum of one upper division HUES unit with an advisor's approval. (Students who complete HUES 140 may select three lower or upper division HUES units.)

Family and Consumer Sciences (57-60 units)

The concentration is intended for students who seek preparation for careers working with individuals and families to maximize their efficient use of resources and create environments that allow them to achieve their goals. The emphasis is on diversity and interactions in families, issues of work and family, empowering families, and advocating for families.

Students interested in Family Life Educator Certification awarded by the National Council of Family Relations should contact a HUES Department advisor about course requirements.

A. Required Core Courses (21 units)

- (3) BIO 20 Biology: A Human Perspective
- (3) HUES 50 The Family & Social Issues
- (3) HUES 52 The Child in the Family **OR**
CHDV 30 Human Development
- (1) HUES 60 Professional Development in Family & Consumer Sciences
- (3) HUES 140 Family Resource Management (Passing score on the WPE)
- (2) HUES 160 Senior Seminar (all other HUES core courses)
- (6) Select two of the following:
 - HUES 10 Nutrition & Wellness
 - HUES 20 Design
 - HUES 31 Textiles

B. Required Upper Division Courses (27-30 units)

- (3) ECON 104 Introduction to the United States Economy **OR**
ECON 1A Introduction to Macroeconomic Analysis **AND**
ECON 1B Introduction to Microeconomic Analysis
- (3) HUES 108 Family Communication (COMS 8, HUES 50, SOC 166 or permission of instructor)
- (3) HUES 141 Family Finance
- (3) HUES 142 Consumer Problems
- (3) HUES 154 Issues in Parenting (CHDV 30, HUES 52, or permission of instructor)
- (3) HUES 195C Internship **OR**
HUES 195A Field Study
- (9) Select 9 units from the following, selected with an advisor's approval:
 - HUES 11 Principles of Food Preparation
 - HUES 110 Food Management (HUES 11)
 - HUES 128 Household Equipment & Energy Management
 - HUES 138 Consumer Issues in Textiles & Clothing (HUES 31)
 - HUES 147 Financial Aspects of Aging
 - HUES 150 Seminar: Families Under Stress (HUES 50 or permission of instructor. Passing score on WPE.)
 - HUES 152 Adolescent Development (CHDV 30, HUES 52, or permission of instructor)
 - HUES 153 Experiences with Young Children (a child development course)
 - HUES 155 Family Life Education
 - HUES 159 Adulthood & Aging in Human Development (a human development course or permission of instructor)

C. Electives (9 units)

- (9) Select 9 units of elective courses from other departments with an advisor's approval.

Environmental Design

The Environmental Design area of study has been suspended for 1996/98. Please consult a HUES department advisor about other program options.

**SUBJECT MATTER PROGRAM
(Pre-Credential Preparation)**

The Single Subject Matter Program in Home Economics leads to a BA in Family and Consumer Sciences and meets the subject matter content requirement for a teaching credential. Students who desire a general program of study in home economics are encouraged to follow the Subject Matter Program also.

The standards which govern single Subject Matter Program are being revised by the California Commission on Teacher Preparation and changes may be effective during 1996-98. Family and Consumer Sciences majors wishing to pursue a Subject Matter Program should contact a HUES Department advisor for information on the currently approved Subject Matter Program.

The Subject Matter Program requires 51-52 units, (plus 9 units of directed electives only for students who are not completing the Professional Education Program required for a teaching credential). A minimum grade of "C-" is required for all courses. A grade point average equal to or above the average GPA for Family and Consumer Sciences majors is required for admission into the teacher preparation part of the program.

Courses in parentheses are prerequisites.

A. Required Core Courses (18 units)

- (3) HUES 10 Nutrition & Wellness
- (3) HUES 20 Design
- (3) HUES 31 Textiles
- (3) HUES 50 The Family & Social Issues
- (1) HUES 60 Professional Development in Family & Consumer Sciences
- (3) HUES 140 Family Resource Management (Passing score on WPE)
- (2) HUES 160 Senior Seminar (all other HUES core courses)

B. Required Lower Division Courses (11 units)

- (3) HUES 11 Principles of Food Preparation
- (2) HUES 21 Introduction to Interior Design
- (3) HUES 32 Fundamentals of Clothing
- (3) HUES 52 The Child in the Family

C. Required Upper Division Courses (22-23 units)

- (3) HUES 128 Household Equipment & Energy Management
- (3) HUES 134 Introduction to Fashion Marketing (ECON 1B or MGMT 120) **OR**
HUES 138 Consumer Issues in Textiles & Clothing (HUES 31)
- (3) HUES 141 Family Finance
- (3) HUES 142 Consumer Problems
- (1) HUES 153 Experiences with Young Children (a child development course)
- (3-4) Select one of the following:
 - HUES 110 Food Management (HUES 11)
 - HUES 111 Experimental Study of Food (HUES 11 and CHEM 1A or 6A)
 - HUES 113 Nutrition & Metabolism (BIO 10 or 20; CHEM 1A or 6A. Passing score on WPE)
 - HUES 116 Food Service Management (HUES 11)
- (3) Select one of the following:
 - HUES 152 Adolescent Development (CHDV 30, HUES 52, or permission of instructor)
 - HUES 154 Issues in Parenting (CHDV 30, HUES 52, or permission of instructor)
 - HUES 155 Family Life Education
- (3) Select one of the following:
 - ECON 1A Introduction to Macroeconomic Analysis
 - ECON 1B Introduction to Microeconomic Analysis
 - ECON 104 Introduction to the United States Economy

D. Electives (9 units)

- (9) Students who are not teaching credential candidates must also select 9 units of electives from other departments with an advisor's approval. Students who complete Phase I of the Teacher Preparation Program meet this elective requirement.

Teaching credential candidates must also complete the Professional Education Program in order to qualify for a teaching credential. Consult the HUES Department credential advisor and the School of Education Student Service Center for details.

MINOR REQUIREMENTS

The minor in Family and Consumer Sciences requires 24 units, all of which must be taken in Human Environmental Sciences. A minimum of 12 upper division units is required. Courses must be selected from at least two areas of Family and Consumer Sciences in consultation with a HUES advisor. Specific course requirements are:

- (3) Select one of the following:
- | | |
|----------|----------------------------|
| HUES 10 | Nutrition & Wellness |
| HUES 20 | Design |
| HUES 31 | Textiles |
| HUES 50 | The Family & Social Issues |
| HUES 140 | Family Resource Management |

LOWER DIVISION COURSES

10. Nutrition and Wellness. 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. 3 units. (CAN HEC 2)

11. Principles of Food Preparation. Study of basic principles of food preparation. Emphasis on selection and storage of food and techniques of preparation to maintain quality and nutritive value. Laboratory includes preparation and evaluation of individual food products. Lecture two hours, laboratory three hours. 3 units. (CAN H EC 8)

20. Design. An examination of the visual arts and their relation to the environment. Analysis of color and design as expressed in architecture and interiors, community planning, painting and sculpture, furniture, ceramics, textiles, clothing, and industrial design. Lecture, discussion. 3 units.

21. Introduction to Interior Design. An introduction to the subject of interior design. Consideration of human factors, aesthetics, design process, furnishings, surface treatments, and current issues. Lecture, discussion, field trips, two hours. 2 units.

22. Technical Drawing. Introduction to the equipment and techniques used by interior designers for technical graphic communication. Emphasis is on graphic skills development and the methods, materials and conventions used in non-structural interior construction. Studio activity, field trip. Four hours. 2 units.

31. Textiles. 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. 3 units. (CAN H EC 6)

32. Fundamentals of Clothing. 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. 3 units. (CAN H EC 10)

50. The Family and Social Issues. Interpersonal and family development with emphasis on mate selection, marriage, parenthood, middle age and aging; social change and the family; alternatives to the nuclear family, and major social issues confronting the family today such as poverty, race discrimination and sex discrimination. Lecture, discussion. **Note:** not open for credit to students who have taken SOC 5. 3 units. (CAN H EC 12)

52. The Child in the Family. Survey of physical, social, emotional, and cognitive development of the child, conception through adolescence. Focus on needs of the infant and young child in relation to family groups, including preparation for parenthood, maternal health, infancy, and early childhood. Emphasis on child guidance. Observation of infants and children. Lecture, discussion, fieldwork. **Note:** not open for credit to students who have taken CHDV 137, 138, or PSYC 148. 3 units. (CAN H EC 14)

60. Professional Development in Family and Consumer Sciences. Definition, history and philosophy of the discipline. Examination of the concentration in the major and career options. Analysis of personal and professional competencies and development of an academic plan. To be completed the first year in the major. Activity two hours. 1 unit.

UPPER DIVISION COURSES

General

160. Senior Seminar. Seminar designed to synthesize knowledge from the discipline. Examination and analysis of public policy and ethical issues, professionalism and leadership strategies. Competency assessment and communications project. **Prerequisite:** completion of other HUES core courses. 2 units.

Child and Family Development

108. Family Communication. The 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 as COMS 108. **Prerequisites:** COMS 8, HUES 50, SOC 166, or permission of instructor. 3 units.

150. Seminar: Families Under Stress. Study of family behavior under stress. Family theory and research, including crosscultural study of families, applied to the interpretation and analysis of selected literary works. **Prerequisite:** HUES 50 or permission of instructor. Passing score on the WPE. 3 units.

152. Adolescent Development. In-depth study of readings and research on adolescent development. Focus is on developmental achievements and understanding the needs and motivations of adolescents and the challenges they face within their socio-cultural environment. **Note:** not open to students who have taken PSYC 149. Lecture, discussion. **Prerequisites:** HUES 52, CHDV 30, or permission of instructor; previous or concurrent enrollment in CHDV 133 strongly recommended. 3 units.

153. Experience with Young Children. Guided experience with preschool children at the campus Child Study Center. May be repeated to a maximum of 6 units. **Prerequisite:** a course in child development. 1-3 units.

154. Issues in Parenting. 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. **Prerequisites:** HUES 52, CHDV 30 or permission of instructor; previous or concurrent enrollment in CHDV 133 strongly recommended. 3 units.

155. Family Life Education. Perspectives on history, philosophy, objectives and content of contemporary programs in sex education at all age levels. Programs will be analyzed in terms of changing patterns of family life and sex typing in roles, the effect of these changing patterns on learning and the socialization process, and on teachers' attitudes toward the family and human sexuality. Spring only. 3 units.

157. Infant and Toddler: Development and Care. Research, theory and practice are examined in relation to each area of infant and toddler development (conception through 24 months): Physical, social, emotional, cognitive, and perceptual. Individual differences and needs are stressed. Issues pertinent to individual and group care will be covered. Activities include lecture, discussion, and observation. **Prerequisites:** HUES 52 or CHDV 30, PSYC 148, SWRK 125A, EDTE 142. 3 units.

158. Topical Seminar in Family and Child Development. In-depth examination and analysis of selected significant topics in family and child development. Emphasis on critical discussion and evaluation. 3 units.

158A. Aging and the Family. A study of changing roles and relationships in the family as some members enter the stage of old age. The experience of aging, through a study of literature, using theoretical views of changing needs for relationships (during later life) in interpreting the literature. 3 units.

158B. Career and Family: Life-Cycle Perspective. An examination of the interplay of work roles, family relationships and household division of labor and child care in contemporary two career/two worker families. Interrelationships of structural and psychological factors with legal and cultural ones. 3 units.

159. Adulthood and Aging in Human Development. Analysis of the aging process; the interrelation between physical, psychological, and social development in the middle and later years; and characteristic personal, family and community adjustment problems. **Prerequisite:** a human development course or permission of instructor. 3 units.

Environmental Design

120. Principles of House Design. An introduction to some of the major architectural movements of the 20th Century; discussion of environmental concerns as related to house design; study of basic principles in planning a house. Lecture, discussion, field trip. **Prerequisite:** HUES 20 or permission of instructor. 3 units.

123A. Historic Interiors. Survey of interiors, furniture and the decorative arts in Asia, Europe and America to the 19th century. Lecture, discussion. **Prerequisites:** HUES 20, ART 1A, 1B, or permission of instructor. Fall only. 3 units.

123B. Contemporary Interiors. History of interior design from the 19th century to the present, with emphasis on modern furnishings and interiors. Lecture, discussion. **Prerequisite:** HUES 20, ART 1A, 1B, or permission of instructor. Spring only. 3 units.

124A. American Design. Survey of high-style and vernacular buildings, interiors, and decorative arts from the 17th century to the beginning of World War I. Analysis of European, Asian, Hispanic/Latino/Chicano and other background sources of inspiration and influence. Lecture/discussion. **Note:** not open for credit to students who have taken HUES 124B. **Prerequisites:** HUES 123A and 123B; WPE; or permission of instructor. Fall only. 3 units.

124B. Asian Design. A survey of the decorative arts of Asia with emphasis on the designs of India, China, and Japan. Textiles, furniture, and lacquerwork are among the topics explored. Influence on European and American design. Lecture, discussion. **Note:** not open to students who have taken HUES 124A. **Prerequisites:** HUES 123A and 123B; WPE; or permission of instructor. Spring only. 3 units.

126C. Space Planning. Advanced studio course in space planning with emphasis on analysis and problem solving for tenant development in commercial interiors. Studio activity six hours. **Prerequisite:** HUES 122. 3 units.

127. Lighting. A study of the concepts and the analysis of the technical and aesthetic applications of lighting design on both residential and commercial interiors. Lecture, discussion, field trips. **Prerequisite:** HUES 21 or permission of instructor. 3 units.

128. Household Equipment and Energy Management. Principles of operation, selection and care of household equipment with special emphasis on energy and water management, safe use of equipment, and consumer decision making. Effects of technology on kitchen and other workspace planning. Cross-listed as INTD 128, only one of these courses may be used for credit. 3 units.

129. Topics in Environmental Design. Investigation of selected topics in environmental design. 1-3 units.

129A. Business Practices for Interior Designers. A study of the professional role of the interior designer in relation to that of the manufacturer, distributor and client. Legal and ethical responsibilities are also studied. **Prerequisite:** HUES 21 or permission of instructor. 2 units.

129K. Kitchen Design. A theoretical and practical introduction to the design of kitchens. Topics include the use of resources—space, time, energy, the needs of individuals who use the kitchen, the practical and aesthetic selection of elements and materials within the space. **Prerequisite:** HUES 22 or permission of instructor. 3 units.

Home Management, Family Economics and Consumer Studies

140. Family Resource Management. 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. Lecture, composition. **Prerequisite:** Passing score on the WPE. 3 units.

141. Family Finance. The 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. Lecture, discussion. 3 units.

142. Consumer Problems. Study of personal consumer problems and remedies. Sales tactics; marketplace fraud; redress; credit; warranties; product safety; consumer problems of selected population groups such as the elderly, children, women, students and low income families. Emphasis on consumer decision making. Lecture, discussion. 3 units.

147. Financial and Legal Aspects of Aging. The effects of economic status, legal aspects, and resource management on the quality of life of aging persons. 3 units.

Nutrition and Foods

110. Food Management. Study of food marketing industry and food laws and their effect on current supplies and prices of food. Study and laboratory experience in planning, purchasing, preparation and service of nutritious and aesthetically pleasing meals for individuals, families and small groups. Emphasis on management of time, energy and money in contemporary meal situations. Lecture, discussion two hours; laboratory three hours. **Prerequisite:** HUES 11. Fall only. 3 units.

111. Experimental Study of Food. Application of scientific principles to food preparation, storage, and preservation. Emphasis on functional properties and interactions of ingredients, quality standards, and effects of techniques and ingredients on product quality. Practice in evaluating food using sensory and objective techniques. Includes an introduction to food research and recipe development. Lecture, discussion three hours; laboratory three hours. **Prerequisites:** HUES 11; CHEM 1A or 6A. Spring only. 4 units.

113. Nutrition and Metabolism. Study of the structure, type and metabolism of carbohydrates, lipids and proteins. Discussion of the biological roles of vitamins and minerals. Application and integration of metabolic knowledge to contemporary and controversial issues in nutrition. Lecture, composition. **Prerequisite:** BIO 10 or 20; CHEM 1A or 6A. Passing score on the WPE. 3 units.

114. Cultural Understanding Through Food. Course is designed to strengthen the student's knowledge and understanding of the cultural diversity of people and their food patterns. Emphasis on cultural, economic, and historical development of food habits and their symbolic, religious, and ceremonial significance. Study of evolution of food patterns, types of foods produced, typical dishes, and nutritional contributions of diets. Lecture, discussion, demonstration. 3 units.

115. Nutrition in the Life Cycle. Examination of nutritional concerns, requirements, and metabolism during several stages of the life cycle, including: pregnancy, lactation, infancy, childhood, adolescence and the elderly years. Analysis of cultural, environmental, physical and economic factors affecting nutritional status. Study of methods of assuring adequate nutrition through dietary selection and promotion of maternal, infant, and geriatric health. Lecture, discussion. **Prerequisite:** HUES 113. 3 units.

116. Food Service Management. Study of the commercial and noncommercial food service industry using a systems approach. Principles of food production, procurement, and delivery and management of finances, human resources, facilities and equipment. Legislation and computer applications in the industry. Includes practical experience in a food service production facility. Lecture, discussion, three hours; Field Study, three hours. **Prerequisite:** HUES 11. 4 units.

117. Community Nutrition. Study of theory, concepts and philosophy affecting nutrition education and services in the community. Introduction to techniques or interviewing and counseling clients. Use of a variety of teaching methods to improve nutritional status of the community. Includes a field study component involving practical experience in a community nutrition program. Lecture, discussion two hours; field study, three hours. **Prerequisite:** HUES 113. 3 units.

118A. Principles of Clinical Nutrition. Study of medical terminology and nutritional assessment methods as related to nutritional status. Examination of the etiology, development and dietary prevention and intervention of nutritional related diseases such as: cardiovascular disease, gastrointestinal disease, diabetes mellitus, hepatic disease, and medical charting techniques. Analysis of clinical case studies. Lecture, discussion 2 hours, activity two hours. **Prerequisites:** HUES 113; BIO 31 or 131. 3 units.

118B. Diet Therapy. Examination of the etiology, development and dietary prevention and intervention of nutrition related diseases such as: critical care, cancer, AIDS, neurological disorders and food allergies. Study of methods and appropriate uses of enteral and parenteral nutrition feeding and formulas. Analysis of clinical case studies. Experience with simulated patient education. Lecture, discussion two hours; activity, two hours. **Prerequisite:** HUES 118A. 3 units.

119. Nutrition and Aging. Study of basic nutrition as it applies to health and vitality of the elderly. Cultural, environmental, physical and economic factors affecting nutritional status of the elderly. Investigation of special nutritional problems and nutritional care of chronic diseases associated with aging, as well as nutritional programs for the elderly. Lecture, discussion. **Prerequisites:** HUES 10, 159, or permission of the instructor. Spring only. 3 units.

170. Advanced Nutrition and Metabolism. Study of the metabolic roles of macro- and micronutrients. Discussion of integrated metabolism with regard to organ system and nutrient interactions. Biochemical discussion of inborn errors of metabolism and effects upon nutrient metabolism and dietary requirements. Analysis of experimental designs and methods employed in nutritional science research. Cross-listed as BIO 170, only one of these courses may be counted for credit. Lecture/discussion. **Prerequisites:** CHEM 161, HUES 113; or permission of instructor. 3 units.

Textiles, Clothing and Merchandising

130A. History of Western Costume. Study of costume from ancient times through 19th century; an interdisciplinary approach relating clothing as a universal means of symbolizing roles and social position. Emphasis on the ways clothing communicates values and attitudes displayed by the individual costume and appraised as a reflection of trends in technology, music, literature, interior design and social values. Lecture, discussion. 3 units.

130B. Contemporary Costume. Study of worldwide influences on costume from 1900 to present. Examination of social, economic and technical developments that have caused a revolution in the fashion industry. Attention given to the commercial organizations in the apparel industry including designers, textile manufactures and the consumer. 3 units.

131. Evaluation of Apparel Manufacturing Techniques. Analysis and evaluation of quality standards involved in mass produced and in custom made apparel. Comparison of standards and processes utilized. Style identification. Concepts of sizing and principles of adjustment and fit in men's, women's and children's wear. Lecture, discussion, demonstration, field trips. **Prerequisites:** HUES 31, 32. 3 units.

132A. Apparel Design: Pattern Drafting. Study of past and present trends in garment design. Application of pattern drafting and pattern making principles. Interpretation and creation of original designs. Studio activity six hours. **Prerequisite:** HUES 32 or permission of instructor prior to registration. 3 units.

133. Fashion Sketching. Principles and procedures of fashion drawing. Study of body proportions, fashion poses, apparel and style details and textures. Experience with various media and methods of recording fashion details. Studio activity four hours. 2 units.

134. Introduction to Fashion Marketing. Course is 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. **Prerequisite:** ECON 1B or MGMT 120. 3 units.

135. Topics in Fashion Merchandising. Study of timely topics in Fashion Merchandising. Four units maximum may be applied toward the major or minor. 1-3 units.

135A. Analytical and Specification Buying. Precise quality, detail, size specification and terminology studied in relation to various areas of fashion merchandising. Study of retail private labeling programs. Lecture, discussion. **Prerequisite:** HUES 134. 1 unit.

135B. Fashion Advertising and Promotion. Study of numerous factors utilized to promote fashion merchandise including television, advertising, publicity, mail-order catalogs and in-store promotions. Lecture, discussion. **Prerequisite:** HUES 134. 2 units.

135D. Visual Merchandising Essentials. Introduces modern visual merchandising techniques, equipment and materials. Study and application of principles and practices in arranging and displaying merchandise for single store and chain organization usage. Supervised experience working with merchandise from retail stores. Lecture, discussion. **Prerequisites:** HUES 20, 134; or permission of instructor. 2 units.

135E. Buyer of Fashion Merchandise. Detailed study of merchandising mix, purchasing plan, pricing, markdown, and reports. **Prerequisite:** HUES 134. 1 unit.

136. Fashion Retailing. An advanced study which explores fashion merchandising techniques from single store to chain organizations, as well as women's, men's and children's fashion merchandising. **Prerequisite:** HUES 134. 3 units.

137A. Social Psychology of Apparel. Relationship of humans and dress within their environment. Relative effects of societal factors, custom, and technology in determination of dress. Appearance is studied as a form of nonverbal communication and as a device for expressing cultural and social values. Lecture, discussion. **Prerequisite:** SOC 1. Fall only. 3 units.

137B. Color and Design in Apparel. Chromatic, achromatic, and compound color systems as they relate to apparel will be discussed and explored through independent projects in fabric, fiber and media. Control of proportion, design elements, and organization of color in clothing will be studied. Course focuses on the development of style and an individual creative approach to apparel design through assigned projects emphasizing experimental, contemporary and traditional techniques. Lecture, discussion. **Prerequisites:** HUES 20, 31. Spring only. 3 units.

138. Consumer Issues in Textiles and Clothing. Consumer related issues in the textile product market. Influences on consumer demand for textile products and services; regulations; maintenance of textile products; factors which influence availability of goods; special problems of the textile consumer. Lecture, discussion, reports. **Prerequisite:** HUES 31. 3 units.

Other

195A. Field Study: Selected Areas in Family and Consumer Sciences. Guided study and experience in some area within Human Environmental Sciences in which the student needs orientation or greater depth of study in a specialized field, for example environmental design, equipment or utility demonstration, journalism, radio, television and the like. **Prerequisite:** arrangement in advance with instructor. 1-3 units.

195B. Internship at Child Study Center. Supervised experience working with children and parents as an aide to the director of the Child Study Center. Time commitment may range from 8-20 hours per week, depending upon responsibilities and whether compensation is available. **Prerequisite:** demonstrated experience with young children and permission of instructor. 2-3 units.

195C. Internship. 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 Human Environmental 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 prior to admittance to the course. A minimum of three hours per week per unit of credit is required. **Prerequisite:** upper division status; 2.5 GPA or above. 3 units.

196. Experimental Offerings in Family and Consumer Sciences. Study of selected topics in Family and Consumer Sciences, chosen in accordance with availability of faculty and indication of interest by students. 1-3 units.

199. Special Problems. Individual projects or directed reading. **Note:** open only to students competent to carry on individual work. Admission requires the approval of the faculty member. 1-3 units.

345. Home Economics Education. Selection, organization and evaluation of materials and methods of instruction in home economics. Focus on California framework for Consumer and Homemaking Education and Home Economics Related Occupations programs. To be taken prior to or concurrently with Phase II of student teaching. **Prerequisites:** Approved credential candidacy, completion of Phase I requirements; or permission of instructor. 3 units.

GRADUATE COURSES

295. Field Study. Guided study, observation or work experience in an area in which the graduate student needs advanced and specialized study. **Prerequisite:** undergraduate major or minor in Family and Consumer Sciences; individual arrangement with instructor. 1-3 units.

296. Experimental Offerings in Family and Consumer Sciences. Advanced topics in Family and Consumer Sciences. **Prerequisite:** undergraduate major or minor in Family and Consumer Sciences with completion of study in the five areas of Family and Consumer Sciences or individual arrangement with instructor. 1-4 units.

299. Special Problems. Any properly qualified student may pursue a problem after approval by his/her advisor and the staff member with whom he/she works. **Prerequisite:** undergraduate major or minor in Family and Consumer Sciences. 1-3 units.