

The department of human environmental sciences offers a bachelor of science degree with majors in dietetics, early childhood, family and consumer sciences, and fashion merchandising. Early childhood majors may choose certifications in early childhood (birth-grade 3) and/or early childhood special education (birth-grade 3). Family and consumer sciences (FCS) majors may choose certification in family and consumer sciences (birth through grade 12) as part of the program. The department also offers minors in early childhood and food management.

The mission of the department is to prepare graduates who are competent to assume leadership and advocacy roles to empower individuals, strengthen families to enhance their quality of life throughout the life cycle, and to enable communities. Graduates accomplish this through careers in education, health care, business and industry, and social/human service.

Graduates from the programs in the department of human environmental sciences (HES) are in great demand and enjoy a very high rate of placement in their chosen career areas. In fact, there is a need for FCS educators at the middle school, secondary, and post secondary levels. Graduates of the dietetics program pass the national registration exam for dietitians at a rate far above the standards required by the Commission on Accreditation for Dietetics Education (CADE).

Undergraduates who complete their degrees are encouraged to pursue an advanced degree. The department offers both a master of arts (MA) degree in HES with a choice of concentrations, and a master of arts in teaching (MAT) degree in family and consumer sciences. See the human environmental sciences program in the graduate section in this catalog for information.

Common Strengths of All Programs

- All programs in the department integrate concepts from the arts, humanities, social, biological, and physical sciences with content from the human environmental sciences discipline and areas of specialization to meet the physical, social, psychological, and economic needs of individuals and families.
- The curriculum encourages the development of a disciplined mind; critical, creative, and reflective thought; skills in human relationships and communications; as well as professional competencies.
- The educational experiences of all programs focus on values, interrelationships of people with their

environment, cultural diversity, and the management of resources in preparing students to assist others in meeting the challenges of their physical, social, educational, economic, and community environments.

- All students completing a major in the department participate in the following synthesizing courses and experiences:
 - A course in the basic foundations of the HES discipline, including the examination of the body of knowledge, life course development, human ecosystems theory, wellness, global interdependence, resource development and sustainability, appropriate use of technology, and capacity building.
 - A course in advocacy where students examine strategies to use for the common good within personal, professional, and community settings. Students examine issues including the legal rights and responsibilities of individuals and families, the impact of economics and technology in a global society, the impact of cultural and economic diversity on resource management, and the relationships between/among individuals, families, businesses, and community agencies.
 - A senior synthesis course requiring a comprehensive project that critically examines an issue or trend in an area of interest in the broad field of human environmental sciences.
 - Field-based experiences (practicum, internship, and service-learning) integral to all of the programs in order to provide students with the opportunity to integrate theory with practice and explore a range of possibilities for professional practice. The metropolitan St. Louis area provides a wealth of opportunities for such field-based experiences.
 - Career seminars that allow students to survey professional development practices in their respective fields, including learning strategies for developing one's career path.

Students are encouraged to become members of the Student Human Environmental Sciences Association (SHESA) and the American and Missouri Associations of Family and Consumer Sciences. They may also become members of associations related to their area of specialization. These experiences provide students with leadership development and professional networking opportunities at the local, state, and national levels.

FACULTY

Allison Edwards, assistant professor of family and consumer sciences (FCS); chairperson of the department of human environmental sciences; director of the undergraduate program in FCS

Angie Dowell, instructor of fashion merchandising

Janine Duncan, associate professor of family and consumer sciences (FCS); FCS teacher educator

Patricia Durkin, instructor of early childhood

Cheryl Houston, professor of dietetics; director of the dietetics program

Sarah Huisman, assistant professor of early childhood; director of the early childhood program

Joyce Starr Johnson, associate professor of fashion merchandising

Jaimette McCulley, assistant professor of dietetics

Rogene Nelsen, assistant professor of fashion merchandising; director of the fashion merchandising program

Mary Beth Ohlms, instructor of dietetics

DUAL UNDERGRADUATE/GRADUATE ENROLLMENT

See dual enrollment in both the undergraduate and graduate program information sections in this catalog.

MAJOR IN DIETETICS

The dietetics curriculum prepares students for entrance into accredited supervised practice programs following graduation. The Didactic Program in Dietetics (DPD) at Fontbonne University is currently granted initial accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 South Riverside, Suite 2000, Chicago, IL 60606-6995, 312-899-0040.

Baccalaureate Degree and Residency Requirements

All requirements for an undergraduate degree are listed under academic policies and regulations in the undergraduate introductory section in this catalog. These requirements include a graduation requirement of at least one course in religion or theology.

Major Approval

Major approval is required during the second semester of the sophomore year, or after the completion of 45 credit hours at Fontbonne. For transfer students, major approval is required after completing the equivalent of one full semester (*a minimum of 12 credit hours*) at Fontbonne.

A student in the dietetics major must have achieved a cumulative 'professional' grade point average of 3.2 on a 4.0 scale at the times of application for major approval and application for a degree. Students must also achieve grades of C- or better in all professional courses (see curriculum guide available in the department).

General Education Requirements

The 42 credit hours of general education requirements are presented in the undergraduate academic information section in this catalog. A course that meets a general education requirement may also meet a course requirement in the major or a course requirement in another discipline.

The following specific general education courses must be chosen to meet the requirements for this major:

BIO 250 Microbiology (4 credits)

CHM 128 General, Organic, and Biological Chemistry I (4 credits)

HES 397 Advocacy in Professional Practice (3 credits)

MTH 105 College Algebra (4 credits)

PSY 100 Introduction to Psychology (3 credits)

OR

PSY 200 Development of Psychology (3 credits)

Courses Required in the Major

HES 201 Career Seminar I (1 credit)

HES 216 Principles of Nutrition (3 credits)

HES 221 Food Science Theory and Application (4 credits)

HES 223 Interviewing, Education, and Counseling for Dietetics Professionals (3 credits)

HES 291 Foundations in Human Environmental Sciences (3 credits)

HES 301 Career Seminar II (1 credit)

HES 312 Application of Nutrition Concepts (3 credits)

HES 318 Community/Public Health Nutrition: Preconception through the Preschool-Age Child (4 credits)

HES 319 Community/Public Health Nutrition: The School-Age Child through Adulthood (4 credits)

HES 326 Quantity Food Service Purchasing and Operations (3 credits)

HES 345 Management Principles and Practices in Food Service Operations (4 credits)

HES 397 Advocacy in Professional Practice (3 credits)

HES 415 Medical Nutrition Therapy I (4 credits)

HES 416 Medical Nutrition Therapy II (3 credits)

HES 419 Advanced Nutrition (3 credits)

HES 422 Food Pathways for Diverse Groups (3 credits)

HES 424 Experimental Foods (4 credits)

HES 457 Application of Principles and Practices in Dietetics (4 credits)

HES 459 Internship Preparation Seminar (1 credit)

HES 470 Methods in Teaching FCS (3 credits)

HES 497 Senior Synthesis in Human Environmental Sciences (3 credits)

Courses Required in Other Disciplines

BIO 220 Anatomy and Physiology I (4 credits)

BIO 222 Anatomy and Physiology II (4 credits)

BUS 230 Management Principles (3 credits)

CHM 228 General, Organic, and Biological Chemistry II (4 credits)

CHM 328 General, Organic, and Biological Chemistry III (4 credits)

MAJOR IN EARLY CHILDHOOD

A student may choose to major in early childhood (*with certification*) or early childhood (*without certification*). There are two certification options: early childhood (*birth-grade 3*) and/or early childhood special education (*birth-grade 3*). Because of certification requirements from the Missouri Department of Elementary and Secondary Education, it may take longer than eight semesters for students to complete the certification options with this major. The student who pursues a major in early childhood without certification is encouraged to choose a minor. Recommendations include such areas as business administration, psychology, sociology, human services, computer science, or communication. The student will select the minor in consultation with the academic advisor.

Baccalaureate Degree and Residency Requirements

All requirements for an undergraduate degree are listed under academic policies and regulations in the undergraduate introductory section in this catalog. These requirements include a graduation requirement of at least one course in religion or theology.

Teacher Certification Requirements

Full information for teacher certification policies, procedures, and requirements are found in the section titled *Teacher Certification at Fontbonne University* following the graduate programs' section in this catalog.

Major Approval

Major approval is required during the second semester of the sophomore year, or after the completion of 45 credit hours at Fontbonne. For transfer students, major approval is required after completing the equivalent of one full semester (*a minimum of 12 credit hours*) at Fontbonne.

A student seeking certification in the early childhood major must have achieved a minimum cumulative grade point average (GPA) of 2.75 on a 4.0 scale for coursework designated as "professional," and a minimum cumulative GPA of 2.5 on a 4.0 scale at the time of application for major approval, application for degree and teacher certification (*if selected*), and through degree completion. Students seeking certification are required to achieve a grade of C- or better in all "professional" courses (see curriculum guide sheet). These standards take into consideration all undergraduate coursework taken at all colleges and/or universities attended.

A student in the early childhood program who is not seeking certification must have achieved a minimum cumulative GPA of 2.5 on a 4.0 scale at Fontbonne University at the time of application for major approval and application for degree and through degree completion. Students who are not seeking certification are required to achieve a grade of C- or better in all HES courses.

General Education Requirements

The 42 credit hours of general education requirements are presented in the undergraduate academic information section in this catalog. A course that meets a general education requirement may also meet a course requirement in the major or a course requirement in another discipline.

The following specific general education courses must be chosen to meet the requirements for this major:

- BIO 108 Introduction to Life Science with Lab (3 credits)
- CIS 103 Microcomputer Applications in Education (3 credits)
- Fine arts requirement in music or art only (3 credits)
- GOV 101 US and Missouri Constitutions (1 credit)
- HES 266 Management of Family Resources (3 credits)
- HST American history requirement (3 credits)
- MTH 102 Contemporary Topics in Mathematics for Educators (3 credits)
- PHY 108 Introduction to Physical Science with Lab (3 credits)
- PSY 200 Developmental Psychology (3 credits)

Courses Required in the Major

- HES 131 Introduction/Observation of Early Childhood Programs (3 credits)
- HES 201 Career Seminar I (2 credits)
- HES 214 Nutrition and Wellness (2 credits)
- HES 230 Infant and Toddler Development (3 credits)
- HES 232 The Young Child (3 credits)
- HES 266 Management of Family Resources (3 credits)
- HES 291 Foundations in Human Environmental Sciences (3 credits)
- HES 301 Career Seminar II (1 credit)
- HES 336 Parent Education (3 credits)
- HES 397 Advocacy in Professional Practice (3 credits)
- HES 431 Early Childhood Integrated Curriculum (3 credits)
- HES 432 Administration of Early Childhood Programs (2 credits)
- HES 433 Applications of Early Childhood Integrated Curriculum (4 credits)
- HES 497 Senior Synthesis in Human Environmental Sciences (3 credits)

Courses Required in Other Disciplines

- CDS 105 Speech and Language Development of the Normal and Exceptional Child (3 credits)
- EDU 120 Psychology of the Exceptional Child (3 credits)
- Additional Courses Required for Early Childhood Certification (*birth-grade 3*):
- BIO 370 Teaching of Science in the Early Childhood, Elementary, and Middle School (2 credits)
- EDU 200 Introduction to Classroom Teaching—Elementary (3 credits)
- EDU 234 Philosophical Foundations of Education (3 credits)
- EDU 263 Methods of Teaching Reading and Language Arts (6 credits)

- EDU 306 Analysis and Correction of Reading Disabilities (3 credits)
- EDU 325 Individualized Assessment and Approaches in Early Childhood (3 credits)
- EDU 333 Multi-Sensory Methods for the Elementary Classroom (2 credits)
- EDU 338 Emergent Literacy across the Curriculum (2 credits)
- EDU 373 Educating toward a Global Perspective (2 credits)
- EDU 410 Planning for Instruction & Assessment—Elementary and Special Education (2 credits)
- EDU 450 Student Teaching at the Elementary Level (6 credits)
- EDU 452 Student Teaching at the Preschool-K Level (6 credits)
- MTH 350 Methods of Teaching Mathematics in the Early Childhood and Elementary School (3 credits)

Additional Courses Required for Early Childhood Special Education Certification

In order to receive early childhood special education certification, the following courses are required in addition to those listed above for early childhood certification:

- EDU 307 Methods of Teaching Early Childhood Special Education (3 credits)
- EDU 394 Counseling Techniques (3 credits)
- EDU 453 Student Teaching in Early Childhood Special Education (6 credits)
- HES 375 Practicum in Early Childhood Special Education (3 credits)

Additional Courses Required for Early Childhood without Certification

- HES 235 Play, Happiness, and Well-Being (3 credits)
- HES 337 Family Relations (3 credits)
- HES 460 Internship (7 credits)
- MTH 103 may be taken in place of MTH 102

MAJOR IN FAMILY AND CONSUMER SCIENCES

Degree- and certification-seeking students are required to meet these requirements addressed in the curriculum in this catalog. A bachelor of science degree in family and consumer sciences offers undergraduate students both certification (birth–grade 12) and non-certification options.

Baccalaureate Degree and Residency Requirements

All requirements for an undergraduate degree are listed under academic policies and regulations in the undergraduate introductory section in this catalog. These requirements include a graduation requirement of at least one course in religion or theology.

Teacher Certification Requirements

Full information for teacher certification policies, procedures, and requirements are found in the section titled *Teacher Certification at Fontbonne University* following the graduate programs’ section in this catalog.

Major Approval

Major approval is required during the second semester of the sophomore year, or after the completion of 45 credit hours at Fontbonne. For transfer students, major approval is required after completing the equivalent of one full semester (*a minimum of 12 credit hours*) at Fontbonne.

A student in the family and consumer sciences major seeking certification must have achieved a minimum cumulative grade point average (GPA) of 2.75 on a 4.0 scale for coursework designated as “professional,” and a cumulative GPA of 2.5 on a 4.0 scale at the time of application for major approval and application for degree and teacher certification. Students seeking certification are required to achieve a grade of C- or better in all “professional” courses (see curriculum guide sheet available in the department). These standards take into consideration all undergraduate coursework taken at all colleges and/or universities attended.

A student in the family and consumer sciences program who is not seeking certification must have achieved a minimum cumulative grade point average of 2.5 on a 4.0 scale at Fontbonne University at the time of application for major approval and application for degree and through degree completion. Students who are not seeking certification are required to achieve a grade of C- or better in all HES courses.

General Education Requirements

The 42 credit hours of general education requirements are presented in the undergraduate academic information section in this catalog. A course that meets a general education requirement may also meet a course requirement in the major or a course requirement in another discipline.

The following specific general education courses must be chosen to meet the requirements for this major:

- SOC 100 Introduction to Sociology (3 credits)
- ART 155 Art Appreciation (3 credits)
- BIO 108 Introduction to Life Science with Lab (3 credits)
- CIS 103 Microcomputer Applications in Education (3 credits)
- COM 103 Interpersonal Communication (3 credits)
- GOV 101 US & Missouri Constitutions (1 credit)
- HES 266 Management of Family Resources (3 credits)
- HST American history requirement (3 credits)
- MTH 115 Statistics (3 credits)
- PSY 200 Developmental Psychology (3 credits)
- PHL 260 Contemporary Moral Issues (3 credits)

Courses Required in the Major

- HES 119 Essential Concepts for Health and Fitness (3 credits)
- HES 201 Career Seminar I (1 credit)
- HES 214 Nutrition and Wellness (2 credits)
- HES 221 Food Science Theory and Application (4 credits)
- HES 230 Infant and Toddler Development (3 credits)
- HES 232 The Young Child (3 credits)
- HES 245 Housing (3 credits)

- HES 266 Management of Family Resources (3 credits)
 HES 270 Textiles & Apparel for Classroom Educators (3 credits)
 HES 291 Foundations in Human Environmental Sciences (3 credits)
 HES 301 Career Seminar II (1 credit)
 HES 336 Parent Education (3 credits)
 HES 337 Family Relations (3 credits)
 HES 397 Advocacy in Professional Practice (3 credits)
 HES 422 Food Pathways for Diverse Groups (3 credits)
 HES 470 Methods in Teaching FCS (3 credits)
 HES 472 Curriculum in FCS (3 credits)
 HES 497 Senior Synthesis in Human Environmental Sciences (3 credits)

Courses Required in Other Disciplines

- BUS 208 Personal Finance (3 credits)
 SOC 355 Social Aspects of Aging (3 credits)
 EDU 120 Psychology of the Exceptional Child (3 credits)
 EDU 201 Introduction to Classroom Teaching—Middle/Secondary (3 credits)
 EDU 234 Philosophical Foundations of Education (3 credits)
 EDU 401 Classroom/Behavioral Management Techniques (3 credits)
 EDU 350 Methods of Teaching Reading in the Content Area (2 credits)
 EDU 447 Planning for Instruction and Assessment—Middle and Secondary (3 credits)
 EDU 451 Student Teaching at the Secondary Level (10 credits)

MAJOR IN FASHION MERCHANDISING

The International Textile and Apparel Association, Inc. (ITAA), a professional organization of textile, apparel, and retail scholars in education, business, government, and industry has developed goals for students graduating from textile, apparel, merchandising, and design institutions. The Fontbonne fashion merchandising curriculum integrates these voluntary goals throughout the curriculum.

Students in fashion merchandising are encouraged to select a minor in business administration, advertising, graphic design, or communication to complete 128 hours for the graduation.

Baccalaureate Degree and Residency Requirements

All requirements for an undergraduate degree are listed under academic policies and regulations in the undergraduate introductory section in this catalog. These requirements include a graduation requirement of at least one course in religion or theology.

Major Approval

Major approval is required during the second semester of the sophomore year, or after the completion of 45 credit hours at Fontbonne. For transfer students, major approval is required

after completing the equivalent of one full semester (a minimum of 12 credit hours) at Fontbonne.

A student in the fashion merchandising major must have a minimum cumulative grade point average at Fontbonne of 2.5 on a 4.0 scale at the time of application for major approval and application for a degree. Fashion merchandising students must earn a grade of C- or better in all HES courses and their prerequisites (CHM102; BUS233; PSY/SOC100).

General Education Requirements

The 42 credit hours of general education requirements are presented in the undergraduate academic information section in this catalog. A course that meets a general education requirement may also meet a course requirement in the major or a course requirement in another discipline.

The following specific general education courses must be chosen to meet the requirements for this major:

- CHM 102 Essentials of Chemistry with Lab (4 credits)
 CIS 110 Microcomputer Applications: Spreadsheet (3 credits)

OR

- CIS 111 Microcomputer Applications: Database (3 credits)
 PSY 100 Introduction to Psychology (3 credits)

OR

- SOC 100 Survey of Sociology (3 credits)

Courses Required in the Major

- HES 101 Fashion Merchandising at Fontbonne University (1 credit)
 HES 105 Personal, Professional, and Cultural Dress (3 credits)
 HES 106 Essentials of Fashion (3 credits)
 HES 107 The Fashion Industry (3 credits)
 HES 108 Fundamentals of Sewing Technologies (1 credit)
 HES 200 Apparel Product Development (4 credits)
 HES 201 Career Seminar I (1 credit)
 HES 202 Textiles (3 credits)
 HES 205 Apparel Production and Evaluation (4 credits)
 HES 119 Essential Concepts for Health and Fitness (3 credits)
OR
 HES 214 Nutrition and Wellness (2 credits)
OR
 HES 213 Nutrition for Fitness and Physical Performance (3 credits)
 HES 291 Foundations in Human Environmental Sciences (3 credits)
 HES 307 Fashion Behavior and Forecasting (3 credits)
 HES 308 History of Costume (3 credits)
 HES 309 Fashion Merchandising Strategies I: Visual Merchandising and Store Planning (4 credits)
 HES 310 Fashion Merchandising Strategies II: Promotion in the Merchandising Environment (4 credits)
 HES 397 Advocacy in Professional Practice (3 credits)
 HES 405 Principles of Fashion Merchandising and Management (3 credits)
 HES 406 Merchandise Buying: Planning and Control (3 credits)

HES 459 Internship Preparation Seminar (2 credits)
HES 460 Internship (2-7 credits)
HES 497 Senior Synthesis in Human Environmental Sciences (3 credits)

Courses Required in Other Disciplines

BUS 233 Principles of Marketing (3 credits)
BUS Business elective (3 credits)

MINORS

A student must successfully complete, at Fontbonne, a minimum of 50 percent of the credit hours required for the minor.

Minor in Early Childhood

Students from other majors who desire an early childhood minor must take the following core courses identified with an asterisk (*) and may choose any of the other courses listed to total 18-21 credits:

*HES 131 Introduction/Observation of Early Childhood Programs (3 credits)
*HES 230 Infant and Toddler Development (3 credits)
*HES 232 The Young Child (3 credits)
*HES 431 Early Childhood Integrated Curriculum (3 credits)
HES 235 Play, Happiness, and Well-Being (3 credits)
HES 336 Parent Education (3 credits)
HES 337 Family Relations (3 credits)
HES 397 Advocacy in Professional Practice (3 credits)
HES 432 Administration of Early Childhood Programs (2 credits)
HES 433 Application of Early Childhood Integrated Curriculum (4 credits)

Minor in Food Management

Students interested in a career in food management, marketing, or promotion will find the addition of this minor to a major in such areas as advertising or business administration important in preparing for their professional career goals.

Students choosing a minor in food management must take the following courses (see course descriptions for prerequisites) which include a supervised practicum experience:

HES 214 Nutrition and Wellness (2 credits)
HES 221 Food Science Theory and Application (4 credits)
HES 326 Quantity Food Service Purchasing and Operations (3 credits)
HES 345 Management Principles and Practices in Food Service Operations (4 credits)
HES 422 Food Pathways for Diverse Groups (3 credits)
HES 458 Application of Management Principles and Practices in Food Service Operations (3-4 credits)

COURSES

HES 101 Fashion Merchandising at Fontbonne University (1 credit)

This seminar is designed to introduce transfer students to the fashion merchandising program and the human environmental sciences department. Program philosophy and values, the integration of professional development, experiential and service learning, and travel study tour opportunities will be explored. Successful completion of the seminar is required for major approval. Transfer students are urged to enroll in HES 101 during their first semester at Fontbonne. FA, SP

HES 105 Personal, Professional, and Cultural Dress (3 credits)

Studies the values associated with appearance of individuals and groups within cultural, social, psychological, and economic realms; including the visual impact of the identity on the self and others. FA, SP

HES 106 Essentials of Fashion (3 credits)

Study of the elements and principles of design; application of design basics to specific home and apparel fashion; introduction to fashion design and designers, apparel components, and vocabulary used in the design process. Practical applications through laboratory experiences are integral to the course. FA, SP

HES 107 The Fashion Industry (3 credits)

Surveys fashion development through the fashion industry. Investigates the principles involved in the design, production, and marketing of fashion products from concept to consumer. Domestic and foreign fashion markets are studied. Career options are explored. FA, SP

HES 108 Fundamentals of Sewing Technologies (1 credit)

Introduction to basic sewing equipment, instructions, and procedures; familiarity with supply acquisition and use; resources and uses for sewing applications; and selection of sewing projects appropriate for various skill levels. FA, SP

HES 119 Essential Concepts for Health and Fitness (3 credits)

Introduction to health issues related to physical, psychological, and social well being. The course allows students to learn and practice critical thinking skills important in the management of health and fitness. FA, SP, Online FA, Online SP, Online SU

HES 131 Introduction/Observation of Early Childhood Programs (3 credits)

Observation and critical analysis of diversified early childhood programs, with an emphasis on program quality. FA

HES 200 Apparel Product Development (4 credits)

An examination of the product development and production issues critical in apparel manufacturing. Intensive laboratory experiences develop skills in apparel manufacturing, contrasting home and industry methods through mastery of set competencies. Development of an awareness of production

techniques assists in the consumer evaluative processes related to human textile product consumption. Prerequisites: HES 108 or consent of instructor. FA, SP

HES 201 Career Seminar (1-2 credits)

Survey of professional development practices for students' respective fields, including learning strategies for developing one's career path. Prerequisite: Sophomore status. FA, SP

HES 202 Textiles (3 credits)

Analyzes physical and chemical properties of textile products. Includes the study of fibers, yarns, fabric structures, textile design, coloration, and finishing. Identification, use, care, performance, and storage of textile products are studied. Legislation and standards are examined. Laboratory experiences are integral to the course. Prerequisite or concurrent: CHM 102 or CHM 106. FA

HES 205 Apparel Production and Evaluation (4 credits)

Develops an understanding of ready-to-wear garment production and decisions involved in all phases of the production process. Analyzes techniques used by manufacturers and provides students with methods for evaluating apparel quality. Prerequisites: HES 107; HES 200; HES 202. SP

HES 213 Nutrition for Fitness and Physical Performance (3 credits)

Introduction to basic nutrition concepts related to fitness and physical performance of athletes at all levels. Students will also explore current issues in nutrition for athletes including ergogenic aids and weight management practices. SP

HES 214 Nutrition and Wellness (2 credits)

Introduction to basic nutrition concepts that relate to an individual's health throughout the life cycle. Exploration of current issues in nutrition, health, and safety. Not appropriate for dietetics majors. Also offered online. FA, SP, SU as needed.

HES 216 Principles of Nutrition (3 credits)

Introduction to the science of nutrition including the structure, digestion, absorption, metabolism, basic functions, and sources of nutrients. Dietary guidelines and nutritional assessment/evaluation are introduced using computer-assisted analysis. FA

HES 221 Food Science Theory and Application (4 credits)

Study of the physical and chemical properties of food in relation to quality, safety, selection, preparation, and standards. Laboratory experiences, including the integration of computer applications, are integral to this course. FA

HES 223 Interviewing, Education, and Counseling for Dietetics Professionals (3 credits)

Clinical and customer service skills and human resource management will be applied to a wide spectrum of dietetics related job functions. Students will perform interview, education, and counseling skills across the scope of practice for dietetics professionals. Students will develop and critique educational materials for a variety of audiences. SP

HES 229 Infant/Toddler Practicum (1 credit)

The practicum consists of a 30-hour placement in an early childhood center within an infant or toddler classroom. The practicum includes learning to observe, document, interact, and teach infants/toddlers in a developmentally appropriate manner. This practicum is required only for students transferring in the equivalent of HES 230 Infant and Toddler Development but who are missing the practicum experience in the transferred course. Practicum experiences in transferred courses must be documented and verified by previous syllabus or a transcript. SP, SU, FA

HES 230 Infant and Toddler Development (3 credits)

Study of prenatal, neonatal, infant, and toddler development with emphasis given to the birth process and the physical, cognitive, and psychosocial aspects affecting parents and children. Infant observation and practicum experience is an integral part of the course (30 clock hours in addition to the scheduled class meeting times). FA

HES 232 The Young Child (3 credits)

Study of the physical, social, emotional, and cognitive development of young children ages three through eight. Course includes observations of preschool age children (30 clock hours in addition to the scheduled class meeting times). Prerequisite: HES 230 or consent of instructor. SP

HES 233 Young Child Practicum (1 credit hour)

The practicum consists of a 30-hour placement in an early childhood center within a preschool classroom. The practicum includes learning to observe, document, interact, and teach preschoolers in a developmentally appropriate manner. This practicum is required only for students transferring in the equivalent of HES 232 The Young Child, but who are missing the practicum experience in the transferred course. Practicum experiences in transferred courses must be documented and verified by previous syllabus or a transcript. SP, SU, FA

HES 235 Play, Happiness, and Well-Being (3 credits)

Examination of theories of development and the importance of play throughout the life cycle and exploration of how play enhances happiness and effects overall well-being. This course takes students through a journey of self-reflection in order to understand the impact of play on the various domains of development and the well-being. SP

HES 245 Housing (3 credits)

Study of housing and work place environments to meet human and workspace needs including options, types, accessibilities, materials, cost, issues, and problems. The focus is on special design and resource management, including universal design principles, space management guidelines, codes, and ecological consideration. Laboratory and field-based experiences are integral to the course. SP 2012, SP 2014

HES 266 Management of Family Resources (3 credits)

Study of current trends influencing the availability of resources to individuals and families; stresses management processes, decision making, and communication skills necessary for

the satisfaction of needs and achievement of goals. Discusses the role of one's philosophy and values in developing critical judgment in conscious decision making. Additional service learning hours are required beyond the scheduled class meeting times. FA, SP

HES 270 Textiles and Apparel for Classroom Educators (3 credits)

This course will provide an overview of textiles, basic apparel construction, critical approaches to teaching clothing in a service/information economy, psychological and social aspects of clothing, and implementation skills required for FCS educators working in both middle and high school fashion and clothing classrooms. Students will be introduced to planning, lesson writing, and student assessment in the context of diverse classrooms. SU 2013, SU 2015

HES 291 Foundations in Human Environmental Sciences (3 credits)

Introduction to the basic foundations of the HES discipline, including examination of philosophies pertinent to HES as well as the body of knowledge, life course development, systems theory, wellness, global interdependence, resource development and sustainability, appropriate use of technology, and capacity building. Discussion of career paths and planning, workplace skills, employability, and entrepreneurship will be included. FA, SP, SU

HES 293 Special Topics (1-3 credits)

Course offered to supplement regular course offerings. Offered on a one-time or periodic basis.

HES 301 Career Seminar II (1-2 credits)

Application of professional development practices in students' respective fields, focusing on professionalism and decision-making. FA, SP

HES 307 Fashion Behavior and Forecasting (3 credits)

Social, psychological, economic, political, and communication factors influencing consumers' fashion preferences and buying decisions are studied. Principles and methods used to forecast fashion trends are analyzed. Prerequisites: HES 107; BUS 233; PSY100/SOC100 or consent of instructor. SP

HES 308 History of Costume (3 credits)

Studies the origin and development of costume from the early Mediterranean period to the present. Special focus on the change in form and function of dress in relation to the cultural and aesthetic environment in which dress was and is used, including social, religious, political, economic, and technological factors. Prerequisite: Junior status or consent of the instructor. FA

HES 309 Fashion Merchandising Strategy I: Visual Merchandising and Store Planning (4 credits)

Studies the concepts and techniques used in visual merchandising including store planning, layout, and fixturing options. Practical experience in creative problem solving using product, props, fixtures, mannequins, display showcases,

and/or marketing. Off-campus experiences include store analysis and display observations. Prerequisites: HES 105; HES 106; HES 107. FA, SP

HES 310 Fashion Merchandising Strategy II: Promotion in the Merchandising Environment (4 credits)

Studies the principles and methods used in promoting soft goods at all fashion market levels including direct marketing, publicity/public relations, advertising, special events, sales promotion, and fashion shows. Practical experiences applying the principles are gained through the production and coordination of fashion events. Prerequisites: HES 107; HES 309; BUS 233. SP

HES 312 Application of Nutrition Concepts (3 credits)

Exploration of nutrition recommendations as they apply to healthy adult populations. The course will also include nutrition history interviewing, weight management practices, dietary supplement use, functional foods, and nutrition for physical performance. These concepts will be applied through papers, research article summaries, case studies, and role playing. Prerequisite: HES 216. FA

HES 318 Community/Public Health Nutrition: Preconception through the Preschool-Age Child (4 credits)

The study of normal growth and development from preconception through the preschool-age child, including common nutritional needs, deficiencies, and the impact of lifestyle, culture, economics, and values on nutritional intake. The course includes a study of the roles of community/public health nutrition professionals and the resources available to promote wellness in the community with a focus on the planning, implementation, and evaluation of programs designed to meet the needs of this population. Prerequisite: HES 319. SP

HES 319 Community/Public Health Nutrition: The School-Age Child through Adulthood (4 credits)

Continuation of HES 318 Community/Public Health Nutrition: Preconception through the Preschool-Age Child. This course addresses the study of the role of nutrition, including common nutritional needs, deficiencies, and the impact of lifestyle, culture, economics, and values on this population. The course includes a study of the roles of community/public health nutrition professionals and the resources available to promote wellness in the community with a focus on the planning, implementation, and evaluation of programs designed to meet the needs of this population. Prerequisite: HES 216. FA

HES 320 The Science of Gender and Human Health (3 credits)

This course explores trans-disciplinary theoretical perspectives through which we can understand issues related to gender and human health. The interaction of gender with class, race/ethnicity, and sexuality will also be explored. The course will also examine the way gender has affected people's experiences and expectations of health and the health care system.

Specific health-related issues covered in this course include reproductive health, mental health and violence, occupational health and work, chronic disease management, and access to health care systems with attention paid to related research and policy initiatives. SP 2013, SP 2015

HES 326 Quantity Food Service Purchasing and Operations (3 credits)

Analysis and application of the principles, techniques, and tools used in quantity food purchasing, storage, production, service, menu planning, and recipe standardization. Includes use of computers in food service operations. Course covers techniques necessary for successful cost control measures in food service purchasing. Course emphasizes a team approach to successful food service operations, while preparing students to handle management roles in a food service operation. Field observations and labs are integral to the course.

Prerequisites for food management minors: HES 214; HES 221. Prerequisites for dietetics majors: HES 216; HES 221. FA

HES 336 Parent Education (3 credits)

Exploration and discussion of the roles of parents in a child's development. Including concerns confronting parents and presents opportunities to clarify values and improve communication skills. Practice of techniques and strategies of parent education are integrated into the course. FA

HES 337 Family Relations (3 credits)

Analysis of family interaction patterns throughout the life cycle. Emphasis on issues related to self-understanding, readiness for mature relationships, and communication within families. Focus is on understanding family dynamics in relationships and the interrelationships of family with other social institutions. SP

HES 345 Management Principles and Practices in Food Service Operations (4 credits)

Study of food service operations, administration, and management with emphasis on human and material resource management, financial management of food service operations, layout and design of workspace and equipment and facilities, and use of computers in food service management. Prerequisites: BUS 230; HES 326. SP

HES 375 Practicum in Early Childhood Special Education (3 credits)

Application of principles of child development, early childhood, and early childhood special education through participation in a program for young children with special needs. Prerequisites: HES 232; HES 431; prerequisite or concurrent: EDU 307. SP

HES 397 Advocacy in Professional Practice (3 credits)

Examines strategies for individuals to use as advocates for the common good within personal, professional, and community settings. Students in this course will examine issues including the legal rights and responsibilities of individuals and families, the impact of economics and technology in a global society, the impact of cultural and economic diversity on re-

source management, and the relationships between individuals, families, businesses, and community agencies. Students will develop the ability to collect, interpret, and utilize community needs assessments. Life skills associated with coping strategies and conflict management will be addressed. Prerequisite: HES 291; FA, SP, SU

HES 405 Principles of Fashion Merchandising and Management (3 credits)

Investigates the merchandising and buying functions/responsibilities in various types of apparel organizations. Covers merchandise resources in domestic and global markets, vendor relations, and negotiations. Introduces students to merchandise math. Prerequisites: HES 107; BUS 233; junior or senior status in FM program or consent of instructor. FA

HES 406 Merchandise Buying: Planning and Control (3 credits)

Planning, buying, and selling of soft goods; emphasis on buying techniques, six-month and model stock plans, open-to-buy, and profit and loss statements. Problem solving and practical applications enhanced through merchandise math calculations and case studies. Prerequisites: HES 405; junior or senior FM status or consent of instructor. SP

HES 415 Medical Nutrition Therapy I (4 credits)

Study of the roles of the dietitian in the nutrition care process, focusing on nutrition assessment, documentation, counseling, and appropriate nutrition intervention in selected disease states. Prerequisites: HES 319; BIO 222, and major approval required. FA

HES 416 Medical Nutrition Therapy II (3 credits)

Continuation of Medical Nutrition Therapy I. Ongoing study of the roles of the dietitian in the nutrition care process, focusing on nutrition assessment, documentation, and appropriate medical nutrition therapy intervention in selected disease states. Prerequisite: HES 415. SP

HES 419 Advanced Nutrition (3 credits)

In-depth study of nutrients in the body focusing on digestion, absorption, metabolism, and physiologic functions. Prerequisites: BIO 222; CHM 318; major approval required. HES 312. FA

HES 422 Food Pathways of Diverse Groups (3 credits)

The study of food patterns for diverse groups. Emphasis on diversity, cultural awareness, socio-economics, geography, and technological factors affecting food patterns. Also integrated into the course are techniques and concerns in food and meal management, contemporary food and nutrition issues, varied food preparation techniques, sanitation and safe food handling concerns, and food availability issues. Laboratory experience is integral to the course. Prerequisites for food management minors: HES 214; HES 221. Prerequisites for dietetics majors: HES 216; HES 221. FA

HES 424 Experimental Foods/Lab (4 credits)

Introduction to research and scientific methods of problem solving in the area of foods. Emphasis on student directed projects and experiments using research and development techniques, appropriate technology, and oral and written communication of research findings. Laboratory experience. Prerequisite: HES 221. SP

HES 431 Early Childhood Integrated Curriculum (3 credits)

Program planning and evaluation based on principles of development and a variety of theoretical constructs. Examines teaching strategies, content area knowledge and developmentally appropriate practices in the field of early childhood with strong emphasis on integrated curriculum. The importance of play, multicultural teaching, and family involvement are explored in relationship to early childhood development and curriculum. Prerequisites: HES 232. FA

HES 432 Administration of Early Childhood Programs (2 credits)

Study of preschool, child care, and nursery school management, planning, and financing; emphasis on the director's role in staff relations and program planning. Prerequisites: HES 431 or consent of instructor. SP

HES 433 Applications of Early Childhood Integrated Curriculum (4 credits)

Applies teaching strategies, content area knowledge, and developmentally appropriate practices in the field of early childhood with a strong emphasis on integrated curriculum. Through practicum based experiences students will experience planning, content implementation, and assessment in an early childhood setting. Prerequisite: HES 431. SP

HES 440 History of Women in the United States (3 credits)

This course examines the role women have played as individuals and as family members throughout the history of the United States. Investigates distinct cultural beliefs concerning the role of women and mothers, family relationships, the past and future of women. Cross-cultural and multicultural aspects are key aspects of this course. Reading and discussion are integral to the course. This course may be cross-listed with HST440. Offered online only. SU

HES 457 Application of Principles and Practices in Dietetics (3 credits)

An individual field-based practicum experience across the spectrum of dietetics practice focusing on key principles in a variety of settings. This course is geared to assisting the student in applying dietetics practice skills in real world situations. Prerequisites: HES223; HES312; HES319; HES326; BUS230; major approval. SP

HES 458 Application of Management Principles and Practices in Food Service Operations (3-4 credits)

An individual field-based practicum experience focusing on the application of principles of business and foodservice

management in institutional foodservice operations. Sites used include nursing homes, hospitals, schools, and commercial foodservice operations. Geared to assist the student in understanding and applying good management techniques in real world situations. Course requires each student to complete ServSafe training/exam, an independent project for use by site facility as an integral part of the course. Prerequisites: BUS230; HES 326. SP

HES 459 Internship Preparation Seminar (1-2 credits)

Prepares students for internship. Assignments, activities, and strategies used in the course will assist students to be internship-ready in their respective fields. Prerequisite: major approval. Prerequisites for dietetic majors: HES 301; senior status or consent of instructor. Prerequisite for fashion merchandising majors: HES 201. FA

HES 460 Internship (2-7 credits)

A supervised, off-campus field-based experience at an approved site specifically related to students' career goals; integrates and applies academic knowledge and skills; emphasizes professional development. Prerequisite: Senior status or consent of instructor. FA, SP, SU as needed.

HES 467 Practicum in Family and Community Resources (2-4 credits)

An individually arranged practicum providing the student with the opportunity to apply principles of management and the content of the student's major in a community-based setting. FA, SP, SU

HES 470 Methods in Teaching FCS (3 credits)

Study of the philosophy and mission of the discipline and its practice and the roles and responsibilities of the professional, including ethics. Evaluation of client/learner needs, including learning styles, strategies, methods, resources, and technology that facilitate meeting needs on a one-to-one, small/large group basis. Assessment processes to facilitate accountability and systemic changes as well as professional growth and development are included. Practice opportunities are an integral part of the course. Prerequisites: Family and consumer sciences majors: EDU 234; Dietetics: HES 223. FA

HES 472 Curriculum in FCS (3 credits)

Study of family and consumer sciences program design, development, and administration with particular attention to program types, including youth and adult education programs. Coordination and supervision techniques vital to successful program development and implementation are also integral to the course. SP

HES 490 Independent Study (1-4 credits)

Independent study of a problem of specific interest to the student. Open only to students with junior or senior status and with permission of instructor and department chairperson.

HES 494 Special Topics (1-3 credits)

Course offered to supplement regular course listings.
Offered on a one-time or periodic basis.

HES 497 Senior Synthesis in Human Environmental Sciences (3 credits)

Critical evaluation and discussion of trends and needs in a specific area of interest in the broad field of human environmental sciences; based on an independent project with a research orientation and drawing of conclusions as they relate to the quality of life of individuals and families. Prerequisite: major approval and HES 397. FA, SP

HES 498 Senior Synthesis: Research in Human Environmental Sciences (2 credits)

Continuation of Senior Synthesis in Human Environmental Sciences. Critical evaluation and discussion of trends and needs in a specific area of interest in the broad field of human environmental sciences; based on an independent project with a research orientation, analysis of results, and drawing of conclusions as they relate to the quality of life of individuals and families. Active research, written paper, and oral presentation required. Prerequisite: A passing grade in HES 497 and instructor approval. FA, SP as needed.