Human Environmental Sciences (HESC)

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Human Environmental Sciences website (http://human-environmental-sciences.uark.edu/academics/graduate-studies)

Degree Conferred:
M.S.H.E.S. (HESC)

Areas of Study: Apparel merchandising and product development; human nutrition and hospitality innovation; human development and family sciences; and general human environmental sciences.

M.S.H.E.S. in Human Environmental Studies
Prerequisites to Degree Program: Applicants are expected to have sufficient undergraduate preparation to be admitted to the program. An admissions committee that is appointed by the Director at the time an application for admission is received determines eligibility for admission to any of the program areas. The admissions committee specifies any deficiencies in admission requirements that must be met by students who are admitted.

Requirements for the Master of Science Degree: The School of Human Environmental Sciences requires that at least 50 percent of the course requirements be earned from courses at the 5000 or 6000 level. This degree allows for a thesis and non-thesis option. Students who have research assistantships funded by the Arkansas Agricultural Experiment Station are required to participate in the thesis option. The thesis option is also recommended for students who plan to continue their education beyond the Master of Science degree.

Students should also be aware of Graduate School requirements with regard to master's degrees (http://catalog.uark.edu/graduatecatalog/degreerequirements/#mastersdegreeestext).

Thesis Option: The thesis option requires a minimum of 30 semester hours. Of those 30 hours, six semester hours of thesis research are required and at least 12 hours of course work must originate within the area of concentration. Students must also take at least one course each in graduate statistics and research methods.

Non-thesis Option: The non-thesis option is available for students in any concentration who are pursuing their degree through distance education. Students may take any or all of their courses online. The non-thesis option requires a minimum of 33 semester hours of graduate level course work. A minimum of 15 of the semester hours must originate in the student's area of concentration. Students must also take at least one course each in graduate statistics and research methods. Non-thesis track students are required to pass both written and oral comprehensive exams. Students are strongly encouraged to consult with their advisers and the

program website for the sequencing and availability of distance education courses offered by the School of Human Environmental Sciences.

Graduate Faculty

Apple, Laurie Marie McAlister, Ph.D. (Oklahoma State University), M.S., B.S. (University of Arkansas), Associate Professor, 2000.

Attes, Julia, Ph.D. (Virginia Polytechnic Institute and State University), M.S. (Florida State University), B.S. (Virginia Polytechnic Institute and State University), Instructor, 2016.

Balasubramanian, Mahendran, Ph.D. (Oklahoma State University), M.S. (Auburn University), B.Tech. (Anna University), Assistant Professor, 2017.

Becnel, Jennifer N., Ph.D. (Arizona State University), M.A. (University of California-San Francisco), B.A. (San Diego State University), Assistant Professor, 2014.

Cheramie, Lance M., M.S. (University of Arkansas), B.S. (Nicholls State University), Instructor, 2002.

Cho, Eunjoo, Ph.D. (Iowa State University), M.S., B.S. (Hanyang University, Seoul), Assistant Professor, 2013.

Fuller, Serena M., Ph.D. (University of California, Davis), Associate Professor, 2014.

Garrison, Mary Elizabeth, Ph.D., M.S. (Iowa State University), B.S. (Benedictine College), Professor, 2014.

Hamm, Cora, M.S. (New York University), Instructor, 2016.

Herold, Laura K., Ph.D., M.A. (University of Michigan), B.A. (Oberlin College), Clinical Assistant Professor, 2015.

Hill, Laura, Ph.D., M.S. (University of Arkansas), B.S. (John Brown University), Instructor, 2017.

Hubert, Stephanie K., M.S. (University of Arkansas), B.S. (Kansas State University), Instructor, 2015.

Killian, Timothy Scott, Ph.D. (University of Missouri-Columbia), M.A. (Wheaton College), B.A. (Central Bible College), Associate Professor, 2001.

Kim, Jae Kyeom, Ph.D. (University of Minnesota), M.S., B.S. (Korea University), Assistant Professor, 2016.

Moon, Zola, Ph.D., M.A. (University of Arkansas), B.A. (Hendrix College), Clinical Associate Professor, 2001.

Mosley, Jacqueyln Dee, Ph.D. (Texas Tech University), M.S. (Arizona State University), B.A. (University of Northern Iowa), Associate Professor, 2010.

Moxley, Shari Coleman, Ph.D. (University of North Carolina), Instructor, 2013.

O'Brien, Catherine, Ph.D. (University of Illinois, Chicago), M.P.H. (San Diego State University), M.A. (University of California, San Diego), B.S.Ed. (University of Wisconsin, Madison), Instructor, 2016.

Robertson, Lona, Ed.D. (Indiana University, Bloomington), M.S., M.S. (Florida State University), Professor, 2006.

Smith, Kathy, Ed.D., M.S. (University of Arkansas), B.S. (The Ohio State University), Clinical Associate Professor, 1999.

Southward, Cheryl Leigh, Ph.D., M.S., B.S. (University of Tennessee), Associate Professor, 2008.

Traywick, La Vona, Ph.D. (University of Kentucky), Associate Professor, 2007.

Trudo, Sabrina P., Ph.D. (University of Washington), B.S. (Brigham Young University), Associate Professor, 2015.

Washburn, Lisa T., Ph.D. (University of Arkansas for Medical Sciences), Assistant Professor, 2001.

Way, Kelly Ann, Ph.D., M.S., B.S. (Oklahoma State University), Associate Professor, 2006.
Apparel Merchandising and Product Development Courses

AMPD 5003. Apparel Sourcing and Merchandising Systems in the Global Economy. 3 Hours.
Evaluation of key issues facing textiles and apparel supply chain businesses in the global economy considering economic, political, and social perspectives and professional implications. Lecture 3 hours.

AMPD 5013. Advanced Apparel Pattern Design. 3 Hours.
Use of computer aided design technology to perform pattern making techniques for apparel production. Laboratory 5 hours per week. Prerequisite: AMPD 3003.

AMPD 5023. Social, Psychological and Cultural Aspects of Dress. 3 Hours.
Integration of social, psychological and cultural theories as they apply to appearance and clothing behavior. Lecture 3 hours.

AMPD 5033. Issues and Trends in Textile Studies. 3 Hours.
Studies of advances in textile science and recent developments in the textile industry. Lecture 3 hours.

AMPD 5043. Theories and Practices in Apparel Merchandising. 3 Hours.
Theoretical perspectives, concepts and current practices that influence apparel merchandising. Lecture 3 hours.

AMPD 5053. Survey Design and Scale Development. 3 Hours.
This course is designed to provide the expertise required to design and conduct survey research. Students will understand the instruments (scales/questionnaire) used in data collection processes and acquire the statistical skills necessary to develop and test these survey instruments. This course uses both theory and practice. Hands-on training will be provided via SPSS package for data analyses, and Qualtrics will be used for web-based surveys. Prerequisite: 3 hours of graduate-level statistics coursework and HESC 5463 or AGED 5463 or instructor consent.

AMPD 5063. Advanced Apparel Production. 3 Hours.
(Formerly AMPD 4063.) An advanced study of product development incorporating technology used in the industry for a career in fashion merchandising and/or product development in a computer laboratory environment. Laboratory 6 hours per week. Graduate degree credit will not be given for both AMPD 4063 and AMPD 5263. Prerequisite: AMPD 2033, AMPD 2063 and AMPD 3003.

AMPD 5093. Apparel Merchandise Planning and Inventory Control. 3 Hours.
(Formerly AMPD 4093.) Describes today’s challenges for both apparel manufacturers and retailers in meeting the consumer’s demands for the right products at the right price - and at the right times. Follows the evolution of the merchandising function with emphasis on production efficiency, highlighting the philosophies of industry executives and the effective integration of the merchandising, store design, marketing, the apparel supply chain and manufacturing functions along the way. Graduate degree credit will not be given for both AMPD 4093 and AMPD 5293. Prerequisite: AMPD 3033.

AMPD 5103. Evolution of Fashion and Society Through Television Media. 3 Hours.
(Formerly AMPD 4103.) This course uses television programming from its early beginnings in the 1930s through to the twenty-first century to trace major events, societal changes, and the associated evolution of fashion. The course examines television both as an innovator and diffuser of fashion trends. Graduate degree credit will not be given for both AMPD 4103 and AMPD 5103.

AMPD 5111. History of Apparel Through Film from 1900 to Present. 1 Hour.
(Formerly AMPD 4111.) This course uses historic costume films to trace the evolution of clothing from 1900 to Present. Emphasis is placed on societal aspects such as politics, religion, economy, technology, education, sports, class structure, and gender roles, and how they affect and change dress. Web based course. Graduate degree credit will not be given for both AMPD 4111 and AMPD 5311.

AMPD 5211. History of Apparel Through Film to 1900. 1 Hour.
(Formerly AMPD 4011.) This course uses historic costume films to trace the evolution of clothing from ancient Egypt to the Twentieth Century. Emphasis is placed on societal aspects such as politics, religion, economy, technology, education, sports, class structure, and gender roles, and how they affect and change dress. Web-based course. Graduate degree credit will not be given for both AMPD 4011 and AMPD 5211.

AMPD 5223. Merchandising Application for the Apparel Industry. 3 Hours.
(Formerly AMPD 4023.) Application of merchandising theory, principles and practices in a capstone class. An in-depth study of innovative apparel business concepts as applied to manufacturers and retailers of apparel including apparel classification, seasonal cycles, stock emphasis, assortment strategies, target customers, and apparel trends. Includes an overview of marketing communication including advertising, personal selling, and sales promotion. Graduate degree credit will not be given for both AMPD 4023 and AMPD 5223. Prerequisite: AMPD 3033 and AMPD 3043.

AMPD 5233L. Computer Aided Textile Design. 3 Hours.
(Formerly AMPD 4033.) This course is designed to give students advanced skills in textile design using industry based computer aided design (CAD) software. Lab 4 hours per week. Graduate degree credit will not be given for both AMPD 4033L and AMPD 5233L. Prerequisite: AMPD 2033 and AMPD 2053.

AMPD 5253. Historic and Contemporary Apparel. 3 Hours.
(Formerly AMPD 4053.) This course traces the evolution of clothing from ancient times to the twentieth century with emphasis upon Western civilization and includes the study of contemporary fashion as a social force including the origin, scope, theory, and history of the fashion business, the materials of fashion, the fashion producers, auxiliary fashion enterprises, designers, fashion leaders, and leading market. Cultural and economic factors affecting dress, adornment and customs associated dress will be stressed. The Lecture 3 hours per week. Graduate degree credit will not be given for both AMPD 4053 and AMPD 5253.

AMPD 5901. AMPD Pre-Study Tour. 1 Hour.
(Formerly AMPD 4901.) A study of specific regional and international fashion markets for apparel studies in preparation for AMPD 591V AMPD Study Tour. The course examines the design, production, distribution and retailing of fashion goods from couture fashion to mass markets. AMPD 5901 is content specific to each AMPD 591V study tour and must be repeated for each study tour destination. A grade of “C” or better is required to participate in AMPD 591V. Graduate degree credit will not be given for both AMPD 4901 and AMPD 5901. Prerequisite: 2.0 minimum GPA. AMPD majors with minimum 30 hours, or consent. May be repeated for up to 4 hours of degree credit.

AMPD 591V. AMPD Study Tour. 2-6 Hour.
(Formerly AMPD 491V.) An on-site study of specific regional and international fashion markets for apparel merchandising and product development. Course further examines the design, production, distribution and retailing of fashion goods from couture fashion to mass markets as outlined in AMPD 4901. Course includes study trip; length based upon destination. Additional fees required. Course will also be offered each May and August Intersession. Graduate degree credit will not be given for both AMPD 491V and AMPD 591V. Prerequisite: AMPD 4901 (with a C or better), 2.0 min. GPA, AMPD major with min. 30 hours, and instructor consent. Corequisite: AMPD 4901 (with a C or better, if corequisite, must have C or better at time of trip), 2.0 min. GPA, AMPD major with min. 30 hours, and instructor consent. May be repeated for up to 24 hours of degree credit.
Hospitality Courses
HOSP 5633. Hospitality Operations and Financial Analysis. 3 Hours.
In-depth comprehensive study, strategic planning and analysis of the manager's role in successful hotel operations including application of human resource management skills. Emphasis will be placed on strategic decision making, operating procedures, budgeting, financial analysis, problem solving skills, and the technical skills necessary for effective hospitality operations.

HOSP 5643. Meetings and Convention Management. 3 Hours.
Focuses on the planning and management of meetings and conventions in the hospitality industry.

HOSP 5653. Global Travel and Tourism Management. 3 Hours.
The course recounts the history of travel, explores the future, and discusses the components of tourism from a global perspective.

HOSP 5663. Critical Issues and Trends in Hospitality and Tourism. 3 Hours.
The hospitality industry is arguably one of the most important sources of income and foreign exchange and is growing rapidly. However, national and international crises have huge negative economic consequences. This course explores change in the world and applies this to forecasting change in the hospitality and tourism industries. This course examines the current state of the industry and makes educated predictions to the future of the lodging, cruise, restaurant, technology, and travel and tourism industries.

HOSP 5673. Destination Marketing and Operations. 3 Hours.
This course is designed to provide students with a basic understanding of the tasks and processes involved in running a successful destination of management organization (DMO). This course places heavy emphasis on destination marketing. Prerequisite: HOSP 1603.

HOSP 5683. Food and Wine Management, Service and Evaluation. 3 Hours.
This course provides students with knowledge of the sensory relationship of wine and food and the important role this process has on gastronomic satisfaction and gastronomic tourism. Course topics will include developing and marketing the wine/food tourism product, wine and food pairing as a hierarchical process, gastronomic identity, Old and New World traditions, managing a food and wine program, trends in food and wine, and promoting Arkansas food and wine. Students must be at least 21 years old. Students are required to complete an alcohol compliance education program prior to taking course. Students who may not imbibe for any reason should speak with the instructor about an accommodation and alternative assignments. Prerequisite: HOSP graduate students only and instructor consent required.

HOSP 5693. Hospitality Management Internship. 3 Hours.
Supervised experience in an instructor approved work/learning situation relating to the hospitality industry in multiple aspects of a hospitality organization. Emphasis on application of knowledge and skills to actual job roles and responsibilities. Requires employment in a hospitality setting for a minimum of 250 clock hours. Prerequisite: Instructor consent.

Human Environmental Sciences Courses
HESC 500V. Special Problems. 1-6 Hour.
(Formerly HESC 400V.) Special problems. Graduate degree credit will not be given for both HESC 400V and HESC 500V. May be repeated for up to 6 hours of degree credit.

HESC 502V. Special Problems Research. 1-6 Hour.
Individual study or research for graduates in the field of human environmental sciences.

HESC 5233. Childhood Obesity: Context and Preventions. 3 Hours.
A multidisciplinary course that focuses on the context and prevention of childhood obesity. Directed readings and discussion will center on the ecological approach: identifying the problem(s) and behavioral and environmental factors and their interactions, as well as predisposing, enabling, and reinforcing factors, and action plan(s). The issue is addressed from a multidisciplinary perspective, including economics, marketing, child development, nutrition, and health behavior.

HESC 5463. Research Methodology in Social Sciences. 3 Hours.
Logical structure and the method of science. Basic elements of research design; observation, measurement, analytic method, interpretation, verification, presentation of results. Applications to research in the economic and sociological problems of agriculture and Human Environmental Sciences. Prerequisite: Graduate standing. This course is cross-listed with AGED 5463.

HESC 555V. Special Topics in Human Environmental Sciences. 1-3 Hour.
Topics not covered in other courses or a more intensive study of specific topics in the specializations of human environmental sciences.

HESC 600V. Master's Thesis. 1-6 Hour.
Master's Thesis. May be repeated for degree credit.

HESC 700V. Doctoral Dissertation. 1-18 Hour.
Doctoral Dissertation. Prerequisite: Candidacy. May be repeated for degree credit.

Nutrition Courses
NUTR 5113. Advanced Nutrition. 3 Hours.
(Formerly NUTR 4213.) Normal nutrition with emphasis on utilization of nutrients. Lecture and reports on current literature 3 hours per week. Graduate degree credit will not be given for both NUTR 4213 and NUTR 5113. Prerequisite: CHEM 3813 and NUTR 3203.

NUTR 521V. Readings in Nutrition. 1-6 Hour.
Seminar and individual study. Prerequisite: Instructor consent.

NUTR 5223. Nutrition During the Life Cycle. 3 Hours.
Study of normal nutrition emphasizing quantitative needs for nutrients as functions of biologic processes that vary during stages of the life cycle. Nutritive needs during pregnancy and childhood are emphasized with some attention to nourishing aging and elderly adults. Factors that affect food choices and eating behavior are also considered. Lecture 3 hours per week. On campus and web-based delivery is offered. Prerequisite: Graduate standing and consent of instructor.

NUTR 5243. Community Nutrition. 3 Hours.
(Formerly NUTR 4243.) Identifying, assessing, and developing solutions for nutritional problems encountered at the local, state, federal, and international levels. Lecture 3 hours per week. Graduate degree credit will not be given for both NUTR 4243 and NUTR 5243.

NUTR 5263. Medical Nutrition Therapy I. 3 Hours.
Principles of medical nutrition therapy with emphasis on Nutrition Care Process, and the pathophysiology and current standards of practice for diseases and disorders. Lecture 3 hours per week. Prerequisite: Graduate standing and consent of instructor.

NUTR 5273. Medical Nutrition Therapy II. 3 Hours.
Principles of medical nutrition therapy with emphasis on the Nutrition Care Process, and the pathophysiology and current standards of practice for diseases and disorders. Lecture 3 hours per week. Prerequisite: NUTR 5263.