

# Human Environmental Sciences (HESC)

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Human Environmental Sciences Website (<https://nam03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fhuman-environmental-sciences.uark.edu%2Facademics%2Fgraduate-programs%2Findex.php&data=02%7C01%7Cpkoski%40uark.edu%7Ce0520da994b34d0477d708d7d8197b69%7C79c742c4e61c4fa5be89a3c>)

**Degree Conferred:**  
M.S. (HESC)

**Areas of Study:** Apparel merchandising and product development; food, human nutrition and hospitality management; gerontology; human development and family sciences; and general human environmental sciences.

## M.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 for all concentrations except Gerontology, which only offers a non-thesis option. All students awarded a Graduate Assistantship are expected to complete the thesis option; students on AAES support are required to complete a thesis. The thesis option is also recommended for students who plan to continue their education beyond the Master of Science degree. There are five areas of concentration: Apparel Merchandising and Product Development; Gerontology; Hospitality Management; Human Nutrition; and Human Development and Family Sciences.

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

**Thesis Option:** The thesis option requires a minimum of 30 semester hours. Of those 30 hours, six semester hours of thesis research and six semester hours of core are required and it is expected that at least 12 hours of course work originates within the area of concentration.

**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 30 semester hours of graduate level course work. It is expected that a minimum of 12 of the semester hours originate in the student's area of concentration and six hours of core are required. Non-thesis option 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.

Research Methods and Statistics Core	6
HESC 54603 Research Methodology in Social Sciences	
ESRM 53903 Statistics in Education and Health Professions	
Concentration (Students must select 1 of the 5 concentrations.) <sup>1</sup>	12-15
Choose either Thesis or Non-Thesis Option:	
Thesis Option:	12
HESC 6000V Master's Thesis (6 hours)	
Focus Electives (6 hours)	
Non-Thesis Option: <sup>1</sup>	9-12
Focus Electives	
<b>Total Hours</b>	<b>30</b>

<sup>1</sup> Students in the Gerontology concentration must complete 15 hours in that concentration and 9 hours of Focus Electives. Students pursuing all other concentrations will complete 12 hours in their concentration and 12 hours in either the Thesis or Non-Thesis options.

## Requirements for M.S. in Human Environmental Science With an Apparel Merchandising and Product Development Concentration

**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 for all concentrations except Gerontology, which only offers a non-thesis option. All students awarded a Graduate Assistantship are expected to complete the thesis option; students on AAES support are required to complete a thesis. The thesis option is also recommended for students who plan to continue their education beyond the Master of Science degree. There are five areas of concentration: Apparel Merchandising and Product Development; Gerontology; Hospitality Management; Human Nutrition; and Human Development and Family Sciences.

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

**Thesis Option:** The thesis option requires a minimum of 30 semester hours. Of those 30 hours, six semester hours of thesis research and six

semester hours of core are required and it is expected that at least 12 hours of course work originates within the area of concentration.

**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 30 semester hours of graduate level course work. It is expected that a minimum of 12 of the semester hours originate in the student's area of concentration and six hours of core are required. Non-thesis option 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.

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Focus Electives (6 hours)	
Non-Thesis Option: <sup>1</sup>	9-12
Focus Electives	
<b>Total Hours</b>	<b>30</b>

<sup>1</sup> Students in the Gerontology concentration must complete 15 hours in that concentration and 9 hours of Focus Electives. Students pursuing all other concentrations will complete 12 hours in their concentration and 12 hours in either the Thesis or Non-Thesis options.

#### Requirements for Apparel Management and Product Development Concentration:

AMPD 50003	Apparel Sourcing and Merchandising Systems in the Global Economy	3
AMPD 50203	Social, Psychological and Cultural Aspects of Dress	3
AMPD 50303	Issues and Trends in Textile Studies	3
AMPD 50403	Theories and Practices in Apparel Merchandising	3
<b>Total Hours</b>		<b>12</b>

### Requirements for M.S. in Human Environmental Sciences with Gerontology Concentration

**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 for all concentrations except Gerontology, which only offers a non-thesis option. All students

awarded a Graduate Assistantship are expected to complete the thesis option; students on AAES support are required to complete a thesis. The thesis option is also recommended for students who plan to continue their education beyond the Master of Science degree. There are five areas of concentration: Apparel Merchandising and Product Development; Gerontology; Hospitality Management; Human Nutrition; and Human Development and Family Sciences.

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**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 30 semester hours of graduate level course work. It is expected that a minimum of 12 of the semester hours originate in the student's area of concentration and six hours of core are required. Non-thesis option 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.

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HESC 54603 Research Methodology in Social Sciences	
ESRM 53903 Statistics in Education and Health Professions	
Concentration (Students must select 1 of the 5 concentrations.) <sup>1</sup>	12-15
Choose either Thesis or Non-Thesis Option:	
Thesis Option:	12
HESC 6000V Master's Thesis (6 hours)	
Focus Electives (6 hours)	
Non-Thesis Option: <sup>1</sup>	9-12
Focus Electives	
<b>Total Hours</b>	<b>30</b>

<sup>1</sup> Students in the Gerontology concentration must complete 15 hours in that concentration and 9 hours of Focus Electives. Students pursuing all other concentrations will complete 12 hours in their concentration and 12 hours in either the Thesis or Non-Thesis options.

#### Gerontology Concentration Requirements (15 hours)

<b>Required Courses (6 hours)</b>	<b>6</b>
HDFS 50803 Foundations in Integrative Aging Studies	
HDFS 54103 Adult Development	
<b>The Aging Individual (3 hours)</b>	<b>3</b>
Choose 3 hours from the following:	
HDFS 58303 Physical Health, Wellness, and Active Aging	
or HDFS 58603 Socioemotional and Cognitive Well-being Throughout Adulthood	
<b>Aging in Context (3 hours)</b>	<b>3</b>
Choose 3 hours from the following:	
HDFS 54503 Aging in the Family	

or HDFS 545 Environments and Aging	
<b>Translational Practice in Gerontology (3 hours)</b>	<b>3</b>
Choose 3 hours from the following:	
HDFS 58503 Policy and Aging	
or HDFS 59003 Implementation of Community Programs for Adults	
or HDFS 59103 Applied Research Methods and Evaluation of Aging Programs	
<b>Total Hours</b>	<b>15</b>

## Requirements for M.S. in Human Environmental Science With Hospitality Management Concentration

**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 for all concentrations except Gerontology, which only offers a non-thesis option. All students awarded a Graduate Assistantship are expected to complete the thesis option; students on AAES support are required to complete a thesis. The thesis option is also recommended for students who plan to continue their education beyond the Master of Science degree. There are five areas of concentration: Apparel Merchandising and Product Development; Gerontology; Hospitality Management; Human Nutrition; and Human Development and Family Sciences.

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

**Thesis Option:** The thesis option requires a minimum of 30 semester hours. Of those 30 hours, six semester hours of thesis research and six semester hours of core are required and it is expected that at least 12 hours of course work originates within the area of concentration.

**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 30 semester hours of graduate level course work. It is expected that a minimum of 12 of the semester hours originate in the student's area of concentration and six hours of core are required. Non-thesis option 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.

Research Methods and Statistics Core	6
HESC 54603 Research Methodology in Social Sciences	
ESRM 53903 Statistics in Education and Health Professions	
Concentration (Students must select 1 of the 5 concentrations.) <sup>1</sup>	12-15
Choose either Thesis or Non-Thesis Option:	
Thesis Option:	12

HESC 6000V Master's Thesis (6 hours)	
Focus Electives (6 hours)	
Non-Thesis Option: <sup>1</sup>	9-12
Focus Electives	
<b>Total Hours</b>	<b>30</b>

<sup>1</sup> Students in the Gerontology concentration must complete 15 hours in that concentration and 9 hours of Focus Electives. Students pursuing all other concentrations will complete 12 hours in their concentration and 12 hours in either the Thesis or Non-Thesis options.

### Hospitality Management Concentration Hours:

HOSP 56503	Global Travel and Tourism Management	3
HOSP 56603	Critical Issues and Trends in Hospitality and Tourism	3
HOSP 56703	Destination Marketing and Operations	3
HOSP 56903	Hospitality Management Internship	3
<b>Total Hours</b>		<b>12</b>

## Requirements for M.S. with Human Development and Family Sciences Concentration

**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 for all concentrations except Gerontology, which only offers a non-thesis option. All students awarded a Graduate Assistantship are expected to complete the thesis option; students on AAES support are required to complete a thesis. The thesis option is also recommended for students who plan to continue their education beyond the Master of Science degree. There are five areas of concentration: Apparel Merchandising and Product Development; Gerontology; Hospitality Management; Human Nutrition; and Human Development and Family Sciences.

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

**Thesis Option:** The thesis option requires a minimum of 30 semester hours. Of those 30 hours, six semester hours of thesis research and six semester hours of core are required and it is expected that at least 12 hours of course work originates within the area of concentration.

**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 30 semester hours of graduate level course work. It is expected that a minimum of 12 of the semester hours originate in the student's area of concentration and six hours of core are required. Non-thesis option 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.

Research Methods and Statistics Core	6
HESC 54603 Research Methodology in Social Sciences	
ESRM 53903 Statistics in Education and Health Professions	
Concentration (Students must select 1 of the 5 concentrations.) <sup>1</sup>	12-15
Choose either Thesis or Non-Thesis Option:	
Thesis Option:	12
HESC 6000V Master's Thesis (6 hours)	
Focus Electives (6 hours)	
Non-Thesis Option: <sup>1</sup>	9-12
Focus Electives	
<b>Total Hours</b>	<b>30</b>

<sup>1</sup> Students in the Gerontology concentration must complete 15 hours in that concentration and 9 hours of Focus Electives. Students pursuing all other concentrations will complete 12 hours in their concentration and 12 hours in either the Thesis or Non-Thesis options.

#### Requirements for the Human Development and Family Sciences Concentration:

HDFS 54003 Family Theories and Methods	3
HDFS 54203 Theories of Human Development	3
HDFS 54303 Advanced Studies in Child Development	3
HDFS 57703 Advanced Studies in Family Science (Advanced Studies in Family Science pending approval)	3
<b>Total Hours</b>	<b>12</b>

### Requirements for M.S. in Human Environmental Sciences with Human Nutrition Concentration

**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 for all concentrations except Gerontology, which only offers a non-thesis option. All students awarded a Graduate Assistantship are expected to complete the thesis option; students on AAES support are required to complete a thesis. The thesis option is also recommended for students who plan to continue their education beyond the Master of Science degree. There are five areas of concentration: Apparel Merchandising and Product Development; Gerontology; Hospitality Management; Human Nutrition; and Human Development and Family Sciences.

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

**Thesis Option:** The thesis option requires a minimum of 30 semester hours. Of those 30 hours, six semester hours of thesis research and six semester hours of core are required and it is expected that at least 12 hours of course work originates within the area of concentration.

**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 30 semester hours of graduate level course work. It is expected that a minimum of 12 of the semester hours originate in the student's area of concentration and six hours of core are required. Non-thesis option 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.

Research Methods and Statistics Core	6
HESC 54603 Research Methodology in Social Sciences	
ESRM 53903 Statistics in Education and Health Professions	
Concentration (Students must select 1 of the 5 concentrations.) <sup>1</sup>	12-15
Choose either Thesis or Non-Thesis Option:	
Thesis Option:	12
HESC 6000V Master's Thesis (6 hours)	
Focus Electives (6 hours)	
Non-Thesis Option: <sup>1</sup>	9-12
Focus Electives	
<b>Total Hours</b>	<b>30</b>

<sup>1</sup> Students in the Gerontology concentration must complete 15 hours in that concentration and 9 hours of Focus Electives. Students pursuing all other concentrations will complete 12 hours in their concentration and 12 hours in either the Thesis or Non-Thesis options.

#### Requirements for Human Nutrition Concentration:

For the Human Nutrition concentration, students must complete the following list of concentration-specific courses:

NUTR 51103 Advanced Nutrition I	3
NUTR 52303 Advanced Nutrition II	3
NUTR 52203 Nutrition During the Life Cycle	3
FDSC 64403 Metabolism of Xenobiotics	3
<b>Total Hours</b>	<b>12</b>

### Requirements for Ph.D. in AFLS with Human Nutrition Concentration

**Prerequisites to Degree Program:** A Master of Science degree is desirable. A student with a Bachelor of Science and an exceptional record in academics and/or research may be approved for admission to the Ph.D. program in Agricultural, Food and Life Sciences if the Graduate Student Concentration Admissions Committee of the desired concentration deems them qualified and approval is granted by the AFLSPH Steering Committee. A student admitted to the University of Arkansas, pursuing an M.S. and in good academic standing may apply to



be admitted to the doctoral program and forgo completing the M.S. degree if so approved by the AFLSPH Steering Committee and the AFLSPH Graduate Concentration Admissions Committee. A minimum grade point average of 3.00 (on a 4.00 scale) on previous college-level course work is required.

**Admission Requirements for Entry:** To be considered for admission, a student must submit a letter of intent, along with the application for admission indicating the desired degree concentration, areas of interest and career goals. Official transcripts of all previous college-level course work must be submitted. Three letters of recommendation are required. These letters should address the character and academic capability of the applicant. Applications will first be reviewed by the AFLSPH Steering Committee which will assign the student to the appropriate Graduate Student Concentration Admissions Committee for review. The Concentration Admissions Committee will make the final determination of admittance into the AFLSPH program and the concentration.

**Requirements for Doctor of Philosophy Degree:** The Ph.D. program in Agricultural, Food and Life Sciences requires a minimum of 72 credit hours after a Bachelor of Science or Bachelor of Arts degree or a minimum of 42 hours after a Master of Science or Master of Arts degree.

General course requirements for each degree candidate are arranged on an individual basis by the Faculty Adviser, the Graduate Advisory Committee and the candidate in accordance with guidelines of their concentration. Alternate courses may be selected at the discretion of the committee.

All students must complete 6 hours of elective course hours and 2 hours of seminar. One seminar must be a research proposal presentation and the other must be an exit seminar presenting the dissertation research results. All students must complete 18 hours of doctoral dissertation hours. Students entering the doctoral program with only a B.S. or B.A. must also complete an additional 30 hours (to reach the 72 hour post B.S./B.A. requirement). Students must satisfactorily pass written and oral candidacy examinations covering their discipline and supporting areas. These examinations must be completed at least one year before completion of the Ph.D. degree program in Agricultural, Food and Life Sciences. Each candidate must complete a doctoral dissertation on an important research topic in the concentration field. The specific problem and subject of the dissertation is determined by the faculty adviser, the student and the Graduate Advisory Committee. A dissertation title must be submitted to the dean of the Graduate School at least one year before the dissertation defense. Provisional approval of the dissertation must be given by all members of the Graduate Advisory Committee prior to the dissertation defense. Students must pass the oral defense and examination of the dissertation given by the Graduate Advisory Committee. A student cannot be approved for conferral of the doctoral degree until after completion of all coursework, written and oral candidacy exams, the defense passed and dissertation accepted by the Graduate School and an application for the degree has been filed with the Registrar's Office and the fee paid.

## Additional Concentration Requirements

In addition to the general requirements for the Ph.D. program in Agricultural, Food and Life Sciences, students in the Human Nutrition Concentration must also complete:

NUTR 51003	Nutrition Research Design and Methodology	3
NUTR 51103	Advanced Nutrition I	3
NUTR 52303	Advanced Nutrition II	3

CHEM 58403	Biochemistry II	3
	Graduate-level Statistics	6
	Choose three (3) hours from the following:	3
FDSC 64403	Metabolism of Xenobiotics	
FDSC 6020V	Special Topics	
<b>Total Hours</b>		<b>21</b>

Completion of the AFLS Ph.D. with a concentration in Human Nutrition does not meet the eligibility requirements to become a registered dietitian nutritionist (RDN). The Commission on Dietetic Registration requires a minimum of a master's degree plus the completion of supervised practice hours. The commission requires that individuals complete the supervised practice hours in programs accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) for this purpose. This is not provided by the University of Arkansas.

In addition to the prerequisites to the AFLS Ph.D. program, applicants are required to have earned credit in the following:

- Introductory Biology (3 credits)
- Physiology (human; 3 credits)
- Biochemistry (3 credits)
- Nutrition (human; 3 credits)
- Statistics (3 credits)

Students entering the graduate program who do not have an undergraduate degree in nutrition or closely related field with training and experience will be required to take the following additional courses:

- CHEM 58103 Biochemistry I
- NUTR 52203 Nutrition During the Life Cycle

## Graduate Faculty

**Apple, Laurie Marie McAlister**, Ph.D. (Oklahoma State University), M.S., B.S. (University of Arkansas), Associate Professor, 2000, 2007.

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

**Cho, Eunjoo**, Ph.D. (Iowa State University), M.S., B.S. (Hanyang University, Seoul), Associate Professor, 2013, 2019.

**Fillastre, Michelle D.**, Ph.D., M.S. (Louisiana State University), Instructor, 2020.

**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.

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

**Johnston, Nicholas**, Ph.D., M.S., B.S. (Texas Tech University), Assistant Professor, 2022.

**Killian, Timothy Scott**, Ph.D. (University of Missouri-Columbia), M.A. (Wheaton College), B.A. (Central Bible College), Associate Professor, 2001, 2007.

**Ma, Weiyei**, Ph.D., M.A. (University of Delaware), B.A. (China West Normal University), Associate Professor, 2017, 2023.

**McNally, Shelley Ann**, Ph.D. (University of Toledo), M.S., B.S. (Ohio University), Professional Practice Assistant Professor, 2016.

**Mosley, Jacquelyn Dee**, Ph.D. (Texas Tech University), M.S. (Arizona State University), B.A. (University of Northern Iowa), Professor, 2021, 2016.

**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.

**Southward, Leigh**, Ph.D., M.S., B.S. (University of Tennessee), B.S. (Mississippi University for Women), Associate Professor, 2008.

**Terrell, Amanda**, Ph.D., M.S., B.S. (Oklahoma State University), Assistant Professor, 2017.

**Traywick, LaVona S.**, Ph.D. (University of Kentucky), M.A. (University of Arkansas-Little Rock), B.S. (University of Central Arkansas), Associate Professor, 2017.

**Trudo, Sabrina P.**, Ph.D. (University of Washington), B.S. (Brigham Young University), Associate Professor, Twenty First Century Endowed Chair in Human Environmental Sciences, 2015.

**Way, Kelly Ann**, Ph.D., M.S., B.S. (Oklahoma State University), Associate Professor, 2006, 2012.

## Apparel Merchandising and Product Development Courses

**AMPD 50003. 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. (Typically offered: Fall Odd Years)

**AMPD 50103. Digital Communication in Apparel Retailing. 3 Hours.**

Examination of a digital marketing with a consumer-centric view, technology and consumer trend. Emphasis on the evaluation and discussion of marketing and communication literature, understanding academic research structure, interpretation of findings, assessing implications of research for future directions in merchandising, and the development of manuscript. (Typically offered: Spring Even Years)

**AMPD 50203. 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. (Typically offered: Spring Even Years)

**AMPD 50303. Issues and Trends in Textile Studies. 3 Hours.**

Studies of advances in textile science and recent developments in the textile industry. Lecture 3 hours. (Typically offered: Fall Even Years)

**AMPD 50403. Theories and Practices in Apparel Merchandising. 3 Hours.**

Theoretical perspectives, concepts and current practices that influence apparel merchandising. Lecture 3 hours. (Typically offered: Spring Odd Years)

**AMPD 50603. Advanced Apparel Production. 3 Hours.**

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 40603 and AMPD 50603. Prerequisite: AMPD 20303, AMPD 20603 and AMPD 20703. (Typically offered: Fall and Spring)

**AMPD 50903. Apparel Merchandise Planning and Inventory Control. 3 Hours.**

Describes today's challenges for both apparel manufacturers and retailers in meeting the consumer's demands for the right products at the right prices - 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 40903 and AMPD 50903. Prerequisite: AMPD 30303. (Typically offered: Fall and Spring)

**AMPD 51003. Evolution of Fashion and Society Through Television Media. 3 Hours.**

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 41003 and AMPD 51003. (Typically offered: Fall and Spring)

**AMPD 52203. Merchandising Application for the Apparel Industry. 3 Hours.**

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 40203 and AMPD 52203. Prerequisite: AMPD 30303 and AMPD 30403. (Typically offered: Fall and Spring)

**AMPD 52503. Historic and Contemporary Apparel. 3 Hours.**

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 40503 and AMPD 52503. (Typically offered: Fall and Spring)

## Hospitality Courses

**HOSP 56503. 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. (Typically offered: Spring)

**HOSP 56603. 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. (Typically offered: Spring)

**HOSP 56703. 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 16003. (Typically offered: Fall)

**HOSP 56903. 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. (Typically offered: Fall, Spring and Summer)

## Human Development and Family Sciences Courses

**HDFS 50803. Foundations in Integrative Aging Studies. 3 Hours.**

This course introduces foundational concepts to the interdisciplinary field of gerontology and aging studies, including: core theories of aging, how to be critical consumers of aging research, developing writing and other professional skills, and exploring career options in aging. Prerequisite: Graduate Standing. (Typically offered: Irregular)

**HDFS 54003. Family Theories and Methods. 3 Hours.**

this course is an introduction to graduate study in families. The course focuses on historical and contemporary family theories and research methods that have influenced research on families. Prerequisite: Graduate standing. (Typically offered: Spring)

**HDFS 54103. Adult Development. 3 Hours.**

The course covers physical, cognitive, social, and personal dimensions of adult development. The information is presented from a lifespan developmental framework which encompasses (a) a multidisciplinary perspective, (b) consideration of the impact of prior development on late life as well as socio-historical influences (c) recognition of individual differences among older persons, and (d) concern for promoting optimal functioning. Prerequisite: Graduate standing. (Typically offered: Spring)

**HDFS 54203. Theories of Human Development. 3 Hours.**

Classic and contemporary theories and theoretical issues concerning human development across the life span. Prerequisite: Graduate standing. (Typically offered: Fall Even Years)

**HDFS 54303. Advanced Studies in Child Development. 3 Hours.**

An in-depth examination of issues in development during infancy, early, and middle childhood. Developmental theory and accomplishments/milestones are studied in the biocultural context. Emphasis is on review and analysis of classic and recent research literature and on evaluation of theoretical perspectives based on research evidence. Prerequisite: Graduate standing. (Typically offered: Spring)

**HDFS 54503. Aging in the Family. 3 Hours.**

This course considers theories and research on personal and family transitions and experiences in mid to late life that impact individuals and their family relationships. Applied assignments address these same issues. Prerequisite: Graduate standing. (Typically offered: Spring)

**HDFS 54703. Cognitive Health. 3 Hours.**

Cognitive skills form the foundation for functioning in everyday life and these skills take on added importance in older adulthood. This course focuses on selected theoretical approaches and current research related to cognitive aging. We will review normative and non-normative cognitive changes, assessment techniques, and prevention/intervention efforts. Throughout the course we will keep the role of environment and lifespan implications in the forefront of our discussion. Prerequisite: Graduate standing. (Typically offered: Summer Odd Years)

**HDFS 54803. Creativity and Aging. 3 Hours.**

What happens to creativity as a person ages? This unique class will help students to understand developmental and pathological changes in the brain that can lead to changes in creative output over time. Through hands-on experiences and direct association with older adults, students will grow an appreciation for creativity produced and inspired by older people. This course is intended to provide experiences that will help the student to be able to create art programs for older adults. Prerequisite: Graduate standing. (Typically offered: Summer)

**HDFS 54903. Environments and Aging. 3 Hours.**

Designing for aging is big business. The older population of the U.S. is increasing in numbers, and lives in more varied kinds of housing, from single family homes to specially designed residential units for people experiencing dementia. This course uses interdisciplinary perspectives in an on-line web-based format to explore the preferences and needs of older adults and the attributes of various physical environments that enhance their lives. Students apply this knowledge to the design and management of housing, institutional facilities, neighborhoods, and communities. Prerequisite: Graduate standing. (Typically offered: Spring)

**HDFS 55903. Public Policy Advocacy for Children and Families. 3 Hours.**

Public policy advocacy as related to children and family issues. Strategies for advocacy will be emphasized. Lecture three hours per week. Graduate degree credit will not be given for HDFS 44903 and HDFS 55903. (Typically offered: Fall)

**HDFS 57703. Advanced Studies in Family Science. 3 Hours.**

An in-depth examination of patterns and trends in families; adaptive responses in families in light of environmental, economic, political, social and technological changes. Emphasis is on the evaluation of classic, recent and emergent research literature. Prerequisite: Graduate Standing. (Typically offered: Fall)

**HDFS 58203. Mental Health and Aging. 3 Hours.**

This is an advanced level course in Mental Health and Aging. The student will be introduced to the range of issues involved in this subject utilizing several theoretical perspectives within an overall systems framework. The major emotional, mental, and psychiatric problems encountered in old age will be examined along with the normal processes of the aging individual's personality, mental and brain functions. Common interventions and treatments available will be explored, as well as the consequences of no or inappropriate services. Challenges and barriers on the macro and micro systems levels will be presented with implications for the future of this field. Prerequisite: Graduate standing. (Typically offered: Spring)

**HDFS 58303. Physical Health, Wellness, and Active Aging. 3 Hours.**

Normative biological and physiological changes due to aging are identified with a focus on how environmental factors such as physical activity and nutrition can support healthy aging and prevention of frailty and age-related diseases. Multiple facets of active aging that can augment quality of life will be examined. Resources for implementation of inclusive programs for diverse groups of aging adults will be explored. Prerequisite: Graduate Standing. (Typically offered: Fall and Spring)

**HDFS 58403. Physical Health and Nutrition in Aging. 3 Hours.**

This course identifies the basic physiological changes during aging and their impacts in health and disease. The focus will be on successful aging with special emphasis on physical activity and nutrition. Practical application to community settings is addressed. Prerequisite: Graduate standing. (Typically offered: Fall)

**HDFS 58503. Policy and Aging. 3 Hours.**

This course introduces much of the history behind the policies and programs targeted at aging individuals. Provides overview of the factors that impact economic well-being in late life, as well as an overview of community resources available to older adults. Prerequisite: Graduate standing. (Typically offered: Fall)

**HDFS 58603. Socioemotional and Cognitive Well-being Throughout Adulthood. 3 Hours.**

This course addresses cognitive, social, and emotional health in adulthood and later life including typical and atypical changes such as wisdom, dementia, coping, and depression. Contrasting theoretical frameworks and considering positions of access and resilience, students will examine personality, mental health, and cognitive and brain functioning during adulthood and review methods to enhance psychological health. Prerequisite: Graduate Standing. (Typically offered: Spring Odd Years)

**HDFS 58703. Seminar in Long Term Care-. 3 Hours.**

This course provides valuable information to the person interested in a leadership role in long-term care, but is also useful to persons who think their careers might intersect with senior living organizations or for those students who have a potential interest in long-term care options for their own parents or loved ones. The class is designed to benefit from a very successful intercession course taught each December/January intercession by adjunct professor, Steve Shields. Steve had been CEO at Meadowlark Hills Retirement Community from 1994 until 2010. He is nationally known for his ability to motivate change in long-term care settings. Taped lectures and presentations from the intercession course will provide some of the content for this class. Prerequisite: Graduate standing. (Typically offered: Fall Odd Years)

**HDFS 59003. Implementation of Community Programs for Adults. 3 Hours.**

This course addresses theoretical and practical aspects of community-based efforts to influence the well-being of older adults. Examines literature from gerontological, prevention science, human sciences, and community health approaches. Provides an overview of the program development, implementation, evaluation, and management of aging-related programs. Prerequisite: Graduate Standing. (Typically offered: Fall)

**HDFS 59103. Applied Research Methods and Evaluation of Aging Programs. 3 Hours.**

This course will familiarize students to applied research methods as they apply to aging programs, such as: needs assessment, formative research, process evaluation, and impact assessment. Students will learn theories and concepts of evidence-informed practice and program evaluation, perform the skills to conduct methodologically sound program evaluation research, and gain practical experience and strategies for application. (Typically offered: Fall Odd Years)

## Human Environmental Sciences Courses

**HESC 5000V. Special Problems. 1-6 Hour.**

Special problems. Graduate degree credit will not be given for both HESC 4000V and HESC 5000V. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

**HESC 5020V. Special Problems Research. 1-6 Hour.**

Individual study or research for graduates in the field of human environmental sciences. (Typically offered: Fall, Spring and Summer)

**HESC 50503. 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 54603 or AGED 54603 or instructor consent. (Typically offered: Spring)

This course is cross-listed with AGED 54903.

**HESC 54603. 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. (Typically offered: Fall)

This course is cross-listed with AGED 54603.

**HESC 5550V. 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. (Typically offered: Irregular) May be repeated for up to 9 hours of degree credit.

**HESC 6000V. Master's Thesis. 1-6 Hour.**

Master's Thesis. (Typically offered: Fall, Spring and Summer) May be repeated for degree credit.

**HESC 7000V. Doctoral Dissertation. 1-18 Hour.**

Doctoral Dissertation. Prerequisite: Candidacy. (Typically offered: Fall, Spring and Summer) May be repeated for degree credit.

## Nutrition Courses

**NUTR 51003. Nutrition Research Design and Methodology. 3 Hours.**

This course focuses on topics such as nutrition research terminology, nutritional epidemiology methods, and experimental scientific methods, technologies, and issues involved in understanding and conducting studies on the relationship between human diet and disease. Evaluation of experimental scientific methods include problem identification, research design, preparation and evaluation of experimental research results and outcomes including techniques in the areas of physiology and biochemistry as related to nutrition and metabolism. This course also helps students refine their scientific writing and presentation skills, and introduces hypothesis and proposal development in the nutritional sciences. Prerequisite: Graduate students only. (Typically offered: Spring)

**NUTR 51103. Advanced Nutrition I. 3 Hours.**

This course will cover nutritional, physiological, and biochemical aspects of carbohydrate, protein, and lipid metabolism in humans and their implications in health and disease. Skills will be developed in critically assessing, interpreting, and presenting research literature on the roles of these macronutrients in human health, and in disease prevention and treatment. Prerequisite: CHEM 38103 and NUTR 32003. (Typically offered: Fall)

**NUTR 52203. 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. Prerequisite: Graduate standing and consent of instructor. (Typically offered: Fall)

**NUTR 52303. Advanced Nutrition II. 3 Hours.**

This course will cover nutritional, physiological, and biochemical aspects of vitamins and minerals in humans, their functions and roles in metabolism, and their implications in health and disease. Skills will be developed in critically assessing, interpreting, and presenting research literature on the role of these micronutrients in human health and on supplementation of micronutrients for disease prevention and treatment, including herbal supplements. Prerequisite: NUTR 51103. (Typically offered: Spring)

**NUTR 52403. Community Nutrition. 3 Hours.**

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 42403 and NUTR 52403. (Typically offered: Spring)

**NUTR 52603. 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. (Typically offered: Fall)

**NUTR 52703. 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 52603. (Typically offered: Spring)