

College of Human Environmental Sciences

Stephan M. Wilson, PhD, CFLE - *Dean*
Shiretta Ownbey, PhD - *Associate Dean for Academic Programs and Services*
Christine Johnson, PhD - *Assistant Dean for Research and Graduate Studies*
Glenn Muske, PhD - *Interim Associate Dean and Assistant Director of Family and Consumer Sciences*

101 Human Environmental Sciences • (405) 744-5053 • fax: (405) 744-7113

Web site: <http://ches.okstate.edu>



Mission

The College of Human Environmental Sciences advances and applies knowledge of the interaction of people with their environments to develop effective professionals, engaged citizens and visionary leaders who promote the physical, social and economic well-being of people.

The College of Human Environmental Sciences (CHES) is composed of three departments—Design, Housing and Merchandising; Human Development and Family Science; and Nutritional Sciences—and the School of Hotel and Restaurant Administration. Each science-based program focuses on the reciprocal relationship between people and their natural, constructed or social environments. Graduates pursue professional careers in business, health, communications, education, international service, research, social welfare and a variety of agencies, organizations and institutions. Pre-professional options and advisement are offered for students interested in pursuing graduate education in law, medicine and dentistry or in their major fields of study.

Interdisciplinary, multicultural and global in perspective, the College programs link knowledge of individual development and environmental quality. The College's graduates are prepared for people-centered professions that develop solutions to many of today's most pressing issues. These issues include promoting and contributing to human development and family functioning, improving nutrition and health, designing and managing environments that address human needs where people live, work and play, and effectively managing and delivering products and services critical to the betterment of the environment.

Further information may be found at <http://ches.okstate.edu/>.

Accreditation

The Council for Interior Design Accreditation (CIDA) has accredited the undergraduate interior design program. The preproduction and the production management apparel curricula has received approval from the American Apparel and Footwear Association (AAFA), one of only 10 approved four-year programs in North America. The Child Development Laboratory is licensed by the Oklahoma Department of Human Services (DHS) and has received a Three Star Differential Quality Certification from DHS. The Child Development Lab is also accredited by the accrediting branch of the National Association for the Education of Young Children (NAEYC). Program approval has been granted to the *Early Childhood Education* program by the Oklahoma State Board of Education. The *Early Childhood Education* program is accredited by the National Council for the Accreditation of Teacher Education (NCATE). The Marriage and Family Therapy program is accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE). The didactic program in dietetics (DPD) and the dietetic internship program at OSU are both accredited by the Commission on Accreditation for Dietetics Education (CADE). The American Dietetic Association may be reached at 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (800) 877-1600. The School of Hotel and Restaurant Administration is

accredited by the Accreditation Commission for Programs in Hospitality Administration (ACPHA).

The Patricia Kain Knaub Center for Student Success

The *Patricia Kain Knaub Center for Student Success* is located in HES 101 on the south wing of the College. This location is the destination of every student and accompanying family arriving in the College. The center provides a welcoming entry point and a continuing resource for a wealth of integrated academic programming and student services. A student interested in learning about CHES and its academic programs may schedule an appointment with the Recruitment Services coordinator for information and a tour of the College facilities. Upon admission to CHES, students receive an array of services within the Center.

The Center for Student Success serves as a leader within the OSU system and to human sciences academic units nationally to elevate academic advising, the first-year experience, leadership development, and career development through highly engaging, purposeful and integrated programming that educates students to become intentional learners. The Center offers the following comprehensive and integrated services to undergraduate students in CHES:

- Services to prospective students and their families that clearly articulate CHES academic programs.
- Developmental academic advising, emphasizing a student-centered, holistic approach.
- A foundational first-year experience to facilitate transition of students to a large university.
- Strong leadership development experiences through the first-year experience courses, Student Council and other student leadership organizations.
- Career development opportunities to effectively link educational experiences with career goals and career destinations.

The Senior Career Services Coordinator within the Center for Student Success offers services designed specifically for HES students. CHES Career Services offers students opportunities to explore traditional and nontraditional careers.

Career development projects are integrated into the first-year experience courses required of all freshmen and transfer students. Outside of the classroom, students are provided opportunities to refine their job search materials, interview with practicing professionals who represent HES fields of study, participate in career empowerment workshops, learn of part-time job opportunities related to HES areas of study and identify internship experiences. CHES Career Services provides a link to OSU Career Services, making students aware of resources available throughout campus such as career fairs, career and skill assessments, on-campus interviews and an array of other valuable opportunities. Further information on HES Career Services may be found on the Internet at <http://hescareers.okstate.edu/>.

Human Environmental Sciences Outreach

The HES Outreach office performs a vital role in the academic programs and services mission within the College, offering courses using a variety of delivery methods to serve diverse student needs. Various types of study abroad programs are offered to engage students in international opportunities and education. In addition, courses that take students to various locations to experience hands-on education are offered through Outreach. Web-based courses and other distance delivery methods serve students who are unable to access traditional educational offerings. As a member of the Great Plains Interactive Distance Education Alliance, HES Outreach manages administration of online master's programs in family financial planning, gerontology, merchandising, and dietetics. Consistent with the mission of OSU and CHES, Outreach serves various communities through delivery of innovative programs to state, national and international audiences.

Honors

Outstanding students in the College of Human Environmental Sciences who meet the requirements of The Honors College may earn the Honors College Degree while completing their undergraduate degree in this college. For more information, refer to the "Academic Enrichment Programs" section of the *Catalog*.

College honors are earned at the upper division (3000- and 4000-level classes) in the student's major and are one of the requirements for receiving a bachelor's degree with honors. Students with 7-59 hours must have a 3.25 cumulative GPA. Students with 60-93 credit hours must have a 3.37 cumulative GPA. Students with 94 or more credit hours must have a 3.50 cumulative GPA. College honors requires HES 4000 Honors Seminar, six hours of upper-division honors credit in the department and three hours of honors thesis or creative component. For further information on the Honors College, refer to the "Academic Enrichment Programs" section of the *Catalog*.

Scholarships

Oklahoma State University has a scholarship program for entering freshmen, and applications should be sent to the Scholarships and Financial Aid Office by February 1. College of Human Environmental Sciences scholarship applications are due for continuing students in January and scholarship awards are made in April. Freshmen and transfer student scholarships are awarded prior to the fall semester. Criteria for and the amount of the scholarship awards vary.

Academic Programs

—Undergraduate Programs. The Bachelor of Science degrees within the College of Human Environmental Sciences are offered by three departments and one school. The majors are:

- *Design, Housing and Merchandising (DHM)*, with options in apparel design and production, merchandising and interior design.
- *Human Development and Family Science (HDFS)*, with options in early childhood education, child and family services, and gerontology.
- *Hotel and Restaurant Administration (HRAD)*.
- *Nutritional Sciences (NSCI)*, with options in allied health, community nutrition, dietetics, dietetics and exercise, human nutrition/premedical sciences, and nutrition and exercise.

An international studies minor is available through the College of Human Environmental Sciences for HES majors. A combination of language courses, internship/study abroad experience, and completion of International Dimension courses (General Education designated) is required in order to receive the international studies minor designation.

In addition, other subject-focused minors are available through the three departments within the College of Human Environmental Sciences. Details regarding these minors may be obtained by contacting the appropriate programs.

—Transfer Student Admission Requirements. Students transferring into the College of Human Environmental Sciences from another institution or another college at OSU must have a retention GPA of 2.00 or higher unless otherwise specified by a CHES department or school (see DHM and HDFS transfer admission requirements).

—Master's Programs. The Master of Science degree is available in design, housing and merchandising; human development and family science; hospitality administration; and nutritional sciences.

Students seeking admission to a master's degree program in any of the departments must be qualified graduates of colleges and universities of recognized standing. In addition, those seeking admission must have completed 30 semester credit hours in human environmental sciences or closely related subject matter. A student with background deficiencies must compensate for such deficiencies before admission to the master's program. Graduate Record Examination (GRE) scores are required by master's programs within the HDFS and NSCI departments. The DHM department requires only the written portion of the GRE. The School of HRAD requires submission of GRE/GMAT scores for admission consideration. In addition, a 3.00 GPA or higher is required. The plan of study for a master's degree student is individually planned to develop academic excellence specific to the student's career goals. Refer to descriptions of specific master's degree programs for each department or school. The selection and organization of courses are made in consultation with the adviser and the student's advisory committee. At least 21 semester credit hours must be completed in courses numbered 5000 or above.

—Online Master's Programs. The Master of Science degree in Human Environmental Sciences offers an option in family financial planning (FFP). This program is offered online by the Great Plains Interactive Distance Education Alliance (Great Plains IDEA), of which OSU is a member. The FFP master's degree requires 42 credit hours and prepares a student to take the Certified Financial Planner exam. The graduate certificate in family financial planning requires 18 credit hours.

The Human Development and Family Science master's program, with an option in gerontology, is offered through the College of Human Environmental Sciences. The online version of the program requires 36 credit hours and the graduate certificate requires 21 credit hours.

An online master's program in merchandising is offered through the Department of Design, Housing and Merchandising. The online program consists of 36 credit hours.

An online master's program in dietetics is offered through the Department of Nutritional Sciences. For more information on the online master's programs, contact the Office of Academic Programs and Services, Outreach.

—Doctoral Program. The *Doctor of Philosophy* degree is an interdisciplinary degree program through the College in conjunction with the departments of Design, Housing and Merchandising, Human Development and Family Science, Hotel and Restaurant Administration, and Nutritional Sciences. Individualized programs lead to an area of specialization in any one of the departments/school. Admission to the program is based upon evidence that the applicant meets general requirements of the Graduate College, has demonstrated superior achievement, and can successfully complete a doctoral program, as evidenced by letters of recommendation, GRE scores, a 3.50 GPA, and a statement of educational background and goals. Applications are reviewed by a graduate faculty committee in each department or school. This program offers an interdisciplinary combination of courses and research experiences. The program includes a strong emphasis

on research and application of statistical procedures, as well as having students gain experience in resource generation, knowledge sharing and community engagement.

A minimum of 60 semester credit hours beyond the master's degree is required for the PhD degree. The PhD degree prepares individuals to be researchers and educators for research positions in universities, business and industry, for university teaching and for administrative or management level positions.

The *Doctor of Philosophy* degree in food science is an interdisciplinary program available through the Department of Nutritional Sciences in cooperation with other University graduate programs.

Departmental Clubs and Honor Societies

- American Society of Interior Designers Student Chapter
- CHES Ambassadors
- CHES Scholar Leaders
- CHES Student Council
- Club Managers Association of America
- Early Childhood Education Club
- Eta Sigma Delta (hotel and restaurant administration honor society)
- Graduate Students in HES Association
- Hospitality Administration Graduate Student Association
- Hospitality Days
- Human Development and Family Science Club
- International Facility Management Association Student Chapter
- Kappa Omicron Nu (scholarship and leadership honor society)
- Merchandising and Apparel Design Association
- National Society of Minorities in Hospitality
- Nutritional Sciences Club
- Phi Upsilon Omicron (scholarship and leadership honor society)
- Sigma Phi Omega (gerontology honor society)

Design, Housing and Merchandising

Randall Russ, PhD - *Associate Professor and Interim Head*

The mission of the Department of Design, Housing and Merchandising (DHM) is to foster visionary, innovative solutions to global human issues, using creative, critical thinking, and technological processes within the context of Design, Housing and Merchandising. Three undergraduate options are available: interior design, merchandising, and apparel design and production, each requiring a summer internship.

Students in *interior design* are preparing for careers as professionals who assist businesses and families in planning and solving problems relative to the function and quality of interior living and work environments. Course work includes fundamentals of design, design analysis, space planning and programming, design of interior space, computer-aided design (CAD) and related aspects of environmental design. Students must pass the Proficiency Review Process at the end of their freshman year to be accepted into the professional level interior design program. Upon acceptance, students are expected to have their own laptop computer with sufficient capacity for graphics software used in the profession. Career opportunities include professional practice in interior design and architectural firms, lighting, facility management, historic restoration and preservation and product design and sales. The Council for Interior Design Accreditation (CIDA) has accredited the undergraduate interior design program.

Students in *merchandising* are preparing for careers with major firms in apparel, interiors and related retail fields. The focus is on developing competencies associated with merchandising and management

for the retail industry. Course work includes retailing, marketing, merchandise planning and analysis, buying practices, promotion, visual merchandising, fashion and market trend analysis, quality assurance and international sourcing. Career opportunities include corporate and store level management, buying and planner positions, retail manufacturing management, merchandise sourcing manager, retail planner/analyst, visual merchandiser, mall management, product development, and manufacturer's representative.

Students in *apparel design and production* are preparing for careers in the apparel, textiles and sewn products industries. The program emphasizes the integration of design principles, construction methods, consumer preferences and mass production strategies. Course work includes principles of design, apparel production, quality assurance, visual presentation techniques, properties and performance evaluation of textiles, patternmaking, CAD and entrepreneurship. Students must pass a Proficiency Review Process to be accepted into upper division design courses. Students complete a required internship to provide industry experience. The American Apparel and Footwear Association (AAFA) has approved the preproduction (design) and production management undergraduate curricula, making OSU one of only 13 programs in North America recognized with an AAFA approved four year apparel program. Career opportunities include apparel designer, apparel engineer, product development manager, accessory designer, patternmaker, pattern company or manufacturer's representative, textile designer, sourcing manager, quality assurance manager and production manager.

Students in all three options will develop business management, communication, creative problem solving and administrative skills. Minors are available in merchandising and apparel design and production.

Admission Requirements

Transfer students must meet the following minimum retention GPA requirements in order to be admitted to the DHM undergraduate program:

<i>Hours Completed</i>	<i>Minimum GPA Requirement</i>
Less than 31 hours	2.00
31-45 hours	2.25
Over 45 hours	2.50

Graduate Programs

The Department of Design, Housing and Merchandising offers graduate work leading to the Master of Science in Design, Housing and Merchandising and the Doctor of Philosophy in Human Environmental Sciences with an option in design, housing and merchandising. The programs are scientifically based research and/or design oriented. Graduate degrees in the department are tailored to departmental areas of expertise, professional goals of the candidate and College of Human Environmental Sciences and Graduate College requirements. Graduate programs may focus on either *merchandising or design*. Students may investigate design and merchandising from the following perspectives: product development and evaluation, consumer and supplier behavior, business development and management, and constructed environmental and individual interrelationships.

—The Resident Master of Science Degree. The Master of Science degree is designed to prepare individuals for careers in business, industry, extension and post-secondary or college teaching. The thesis plan (research or design) is available for students in apparel design and interior design. For merchandising master students, research thesis and course work only options are available. Programs of study are built around the academic background, experience, needs, special interests and professional goals of the student. The selection of courses that

meet departmental requirements is made in consultation with the advisory committee. A minimum of 21 credit hours must be taken in the department. Additional courses may be selected from other areas of human environmental sciences or from supporting areas such as marketing, sociology, history, and physiology. If the undergraduate degree is not in the area of specialization, specific undergraduate courses in design, housing and merchandising will be required as prerequisites.

—The Online Master of Science Degree with an Emphasis in Merchandising. Oklahoma State University is a member of the Great Plains Interactive Distance Education Alliance. Great Plains IDEA is an award-winning multi-state alliance led by the Human Sciences colleges founded in 1994, as a means to create a marketplace for sharing distance education programs at the graduate level. Combining today's emerging technologies with program based alliances, it utilizes the field of distance education to connect students around the country and afford them the opportunity to be admitted to one member institution and study at other member institutions via Internet-based courses. Students in the Merchandising program have two options: a 36 credit hour master's degree or a 15 credit hour graduate certificate, consisting of a subset of courses from the master's program. The certificate program has been designed for students whose goal is a credential in merchandising and who feel that they do not need a master's degree.

—The Doctor of Philosophy Degree. The PhD prepares individuals for research positions in universities, business and industry, for university teaching and for administrative or management level positions. The student will be expected to have a master's degree or equivalent in design, housing and merchandising or in a closely-related area from a college or university of recognized standing. A student may be required to demonstrate competence in the area of specialization and in related areas, and further course work may be required before admission will be granted.

The plan of study is individually determined for the student in cooperation with an advisory committee. Each plan of study will be an integrated combination of courses and research providing for specialization within an area of design and merchandising, including synthesis of knowledge drawn from departments within and outside of human environmental sciences. Emphasis is on attainment of competencies rather than on the completion of specific numbers of credits; however, a minimum of 60 credit hours beyond the master's must be completed. Each student will develop competence in the area of specialization which includes courses in the major and the support area. International and management dimensions are included.

The program includes a strong emphasis on research and application of statistical procedures, as well as having students gain experience in resource generation, knowledge sharing, and community engagement.

More detailed information on graduate study in the Department of Design, Housing and Merchandising can be obtained from the department Web site www.ches.okstate.edu/dhm/ or by writing the head of the department.

Hotel and Restaurant Administration

Richard Ghiselli, PhD - *Marilynn Thoma Chair and Director*

The mission of the OSU School of Hotel and Restaurant Administration (HRAD) is to provide superior education, applications, research, service, and outreach in a professional and caring environment. This mission is accomplished by implementing theoretical and practical components in the curriculum identified by industry leaders as requirements for success. The academic program is delivered with balanced emphasis on management principles and practical hospitality business applications. The school has a reputation for providing qualified and skilled managers

in lodging, restaurants, meeting planning and other hospitality settings. The HRAD curriculum provides an academic and practical foundation. An educational facility of more than 22,500 square feet houses laboratories, classrooms, exhibit areas and faculty offices. Specific accommodations include: quantity food preparation areas with state-of-the-art commercial equipment and diverse methods of meal preparation; two dining room management and table service laboratories; quick service laboratory; basic food preparation laboratory; classroom and demonstration area; and project room. The School also operates The Atherton Hotel at OSU. The 80-room hotel and The Ranchers Club restaurant, located in the hotel, serve as excellent teaching laboratories for future hospitality professionals.

Career opportunities include restaurant and hotel operations, personnel administration, labor relations, sales and promotion, accounting, front office and general management positions. Positions as regional directors for lodging, restaurant, industrial, and fast food management chains are also available. Other opportunities include event planning, sales, airline catering, vending and individual restaurant entrepreneurship.

To meet the needs of the industry and provide sound academic preparation at the undergraduate level, the curriculum emphasizes professional and general education. The professional area includes courses in accounting, law, cost controls, revenue management, communications and economics. Courses in service management, food and beverage production, purchasing and control, facility management and design, sales and promotion, front office management, and advanced hotel and restaurant management are also included in the specialized area. The BS degree with a major in hotel and restaurant administration may be earned by completing a minimum of 120 semester hours and achieving a "C" grade in courses required in the major area and in the professional electives.

Successful completion of an industry work experience and a management internship are required. Internship placement in hotels, restaurants, and related establishments is arranged globally in cooperation with industry executives and the OSU faculty. Study abroad programs and international internships are available. The School of Hotel and Restaurant Administration is accredited by the Accreditation Commission for Programs in Hospitality Administration (ACPHA).

Further information may be found at <http://ches.okstate.edu/hrad>.

Graduate Programs

—The Master of Science Degree. Admission to the graduate program in hospitality administration is selective and is based on a variety of factors including undergraduate grade-point average, industry work experience, GRE/GMAT score, letters of recommendation and goals of the applicant. Applicants are required to have a bachelor's degree in hospitality and tourism administration or allied field. Prerequisite courses may be required for students with undergraduate degrees in areas other than hospitality and tourism administration. The master's degree requires a minimum of 32 credit hours for the thesis plan or 34 credit hours for the non-thesis plan (requires a creative component).

The plan of study is individually developed with an adviser who is designated after entry into the program. An advisory committee gives final approval of the plan.

—The Doctor of Philosophy Degree. The PhD is awarded in human environmental sciences with an option in hospitality administration. This program focuses on research and prepares researchers, educators and practitioners to make contributions to hospitality higher education and the literature in the hospitality field. The doctoral program requires a minimum of 60 hours beyond the MS degree or 63 hours if a thesis was not completed in the master's program. The program includes a strong emphasis on research and application of statistical procedures, as well as having students gain experience in resource generation, knowledge sharing and community engagement.

A customized part-time doctoral degree program is also available for those students, especially educators, who would prefer to pursue their degree without maintaining a full-time enrollment on campus.

Competitive graduate teaching and research assistantships, graduate fellowships and tuition waivers are available to qualified applicants.

More detailed information on graduate study in the School of Hotel and Restaurant Administration can be obtained by visiting our Web site at <http://ches.okstate.edu/hrad>.

Human Development and Family Science

Sue Williams, PhD - *Professor and Head*

The Department of Human Development and Family Science (HDFS) is a premier academic program dedicated to the discovery, integration and application of knowledge to enhance the quality of life and competence of diverse individuals and relationships. The department prepares students to work with individuals, couples, and families. The department's primary focus is on integrative approaches to developing and maintaining individual and relationship competence. The distinguishing feature of HDFS is the interdisciplinary and multidisciplinary integration of instruction, research and application between and among human development, family science, early childhood education and marriage and family therapy.

Committed to enhancing the quality of life of individuals and families by maximizing the development of individual and relationship competence, the Department of Human Development and Family Science provides a dynamic environment for life-long learners through engagement in:

- *instruction* that fosters creative and critical thinking for individuals in their professional and personal lives;
- *research* that contributes to the discovery of knowledge and understanding of human development and family relationships; and
- *application* of knowledge that is responsive to and informed by constituents' needs.

The department offers undergraduate students options in *Early Childhood Education*, *Child and Family Services* and *Gerontology* on both Stillwater and Tulsa campuses. Each of the three options emphasizes integration of theory, research, policy, and practice.

Criteria for undergraduate students wishing to transfer into HDFS include a required minimum retention grade-point average.

<u>Hours Completed</u>	<u>Minimum GPA Requirement</u>
Less than 31 hours	2.00
31-45 hours	2.25
Over 45 hours	2.50

The *Early Childhood Education* teacher certification option provides professional preparation for individuals to teach in public school programs for prekindergarten through third grade. This option provides a foundation in child development to prepare students to design, implement and evaluate developmentally appropriate curricula for young children. It also provides preparation for working with children from infancy through preschool and their families in a variety of settings. Upon completion of this degree option, students have completed over 1,000 hours in the classroom, including two student-teaching internships.

An *Early Childhood Education* certificate is required to teach prekindergarten through kindergarten in Oklahoma public schools. All students completing the *Early Childhood Education* option must meet Oklahoma State University and Oklahoma professional education requirements.

The *Child and Family Services* option prepares individuals for careers in providing services and leadership to children, youth, adults and their families. The course content focuses on individual development, family

dynamics, family life education, policy, management and professional skills in the context of the community. Career opportunities are in public and private social services agencies, policy and advocacy centers, and in business and industry.

This option also provides education for individuals planning to continue their education in graduate programs, medical school, law school or other specialized graduate programs. The curriculum focuses on developing skills in critical thinking, scientific investigation, and written and oral communication. Students are prepared for advanced education in such areas as family therapy, child life, medicine, physical therapy, law and psychology. This option provides flexibility to accommodate the student's particular area of interest or to meet prerequisites for a professional school.

The *Child and Family Services* option has five professional tracks. These include: child and parenting practitioner/child life specialist, family life educator, pre-professional/premed, pre-professional/prelaw and an individualized plan. The individualized plan is provided especially for students planning double majors. Students in all tracks complete an internship with more than 375 hours in the field.

The *Gerontology* option prepares individuals to understand adulthood and aging issues. Given that individuals are living longer, aging adults represent a larger portion of our work force than ever before. Aging adults need appropriate services (e.g., financial, healthcare, travel), and families are the most likely providers of care to elderly persons. Students need to be prepared to respond to these societal changes.

This option prepares students for careers in providing services and leadership to older adults and their families. The course content focuses on individual development, family dynamics, aging families, family life education, policy, management and professional skills in the context of the community. Career opportunities are in public and private social services agencies, policy and advocacy centers, and in business and industry.

This option also provides education for individuals planning to continue their education in geriatrics (medical school), gerontology, law school or other specialized graduate programs. The curriculum focuses on developing skills in critical thinking, scientific investigation, and written and oral communication.

The BS degree requires a minimum of 124 semester credit hours. A minor is also available in the department; information on requirements may be obtained from the department office. Articulation agreements between Oklahoma State University and Tulsa Community College and between Oklahoma State University and Northern Oklahoma College provide for a transition toward a baccalaureate degree in human development and family science.

Further information may be found at <http://ches.okstate.edu/hdfs>.

Graduate Programs

Graduate study in the Department of Human Development and Family Science (HDFS) is designed to prepare students in the creation, dissemination, and application of knowledge focused on reducing risk and enhancing resilience within individuals and among families. HDFS offers graduate study leading to the Master of Science degree and Doctor of Philosophy degree. Graduate study in HDFS emphasizes the integration of theory, research and application to address key issues risk and resilience. The MS options include *Child and Family Services*, *Developmental and Family Sciences*, *Early Childhood Education*, *Marriage and Family Therapy*, and *Gerontology*. The PhD is offered in human environmental sciences with an option in human development and family science. Students work with their advisors and advisory committees to develop flexible, yet rigorous programs that meet degree requirements and professional competencies in the area of the specialization. Graduate programs in HDFS are central to the departmental research. Faculty and students engage in the

integration of theory and research to advance the development and application of knowledge to reduce risk and enhance resilience for individuals and families across cultures and generations.

HDFS has provided high quality graduate education programs for decades and has graduates in leadership positions across the state and nation in all areas of specialization. The department includes three centers/institutes that enhance student experiences in graduate study: (a) the *Center for Early Childhood Teaching and Learning* that houses the *Child Development Laboratory*, licensed by the state of Oklahoma and the National Association for the Education of Young Children, the *Model Teaching Classroom*, and the *Early Childhood Resource Center* for research information and professional development opportunities; (b) the *Center for Family Services*, offering high quality marriage and family therapy to the public and a training environment for master's degree students who choose the Marriage and Family Therapy option; and (c) the *Gerontology Institute*, focused on advancing the quality of life for aging populations through interdisciplinary programs of instruction, research, and public service.

—The Master of Science Degree. The MS degree in Human Development and Family Science is awarded in five options. Applicants specify the option in which they are seeking the MS degree as part of the application process: *Child and Family Services* (available on both the Stillwater and Tulsa campuses), *Developmental and Family Sciences* (available on the Stillwater campus and as a dual-campus program based on the Tulsa campus), *Early Childhood Education* (available on the Tulsa campus), *Marriage and Family Therapy* (COAMFTE Accredited; available on the Stillwater campus), or *Gerontology* (offered on the Stillwater campus and online through the Great Plains Interactive Distance Education Alliance).

Admission to the MS program is selective and requires the completion of a bachelor's degree in Human Development, Family Science, Child and Family Services, Early Childhood Education, or a related area. Admission decisions are based on a variety of criteria, including grade-point average (3.0 minimum grade-point average in undergraduate work), GRE scores (scores of 450 or higher in each of the Verbal and Quantitative sections and 3.5 or higher on the Analytical Writing section preferred for admission), TOEFL scores (required for students for whom English is a second language, 575 minimum), three letters of recommendation, statement of student goals, and a résumé. Students need to complete both an OSU Graduate College Application and an HDFS Department Application. Admission is available only for the fall semester in the *Marriage and Family Therapy* option. Applications are reviewed for the fall and spring (on a space available basis) in the other four options.

Students in each option take a minimum of 18 credit hours of department core courses designed to prepare students to integrate theory, research, and application focused on reducing risk and enhancing resilience within individuals and among families across cultures and generations. Additional course work (ranging from a minimum of 22 semester hours to a maximum of 43) in each option, approved by the advisor and student's advisory committee, is focused on integrating theory, research and application within the option. Four options (*Child and Family Services*, *Early Childhood Education*, *Marriage and Family Therapy*, and *Gerontology*) offer both a thesis and non-thesis option (requires a creative component). The *Developmental and Family Sciences* option involves a thesis plan. The minimum number of semester hours required for each option is: *Child and Family Services* (39 semester hours for thesis plan or non-thesis plan), *Early Childhood Education* (39 semester hours for thesis plan or non-thesis plan), *Developmental and Family Sciences* (36 semester hours for thesis plan), *Marriage and Family Therapy* (59-62 semester hours for thesis plan, 53-56 semester hours for non-thesis plan), and *Gerontology* (39 semester hours for thesis plan; 36 semester hours for the non-thesis plan; and 36 semester hours for the online program through the Great Plains Interactive Distance Education Alliance).

The *Child and Family Services* option is designed to develop leadership in *Child and Family Services* programs. Graduates: (a) demonstrate an ability to describe, discuss, and integrate theory, research, and application to address key issues related to reduce risk and enhancing resilience; (b) establish a solid theoretical foundation in human development and family science; and (c) gain experiences and demonstrate competence in professional issues related to *child and family services*. Career opportunities include administrator of a *child and family services* agency or program; early interventionist; child development specialist; child life specialist; family life specialist; parent educator; family life educator; state and federal policy and advocacy specialist; or family advocate. Graduates may also pursue doctoral study. The *Child and Family Services* option is available on both the OSU-Stillwater and the OSU-Tulsa campuses.

The *Early Childhood Education* option emphasizes child development as a foundation for the study and practice of professional education of children from birth through age eight. To help students gain a strong understanding of how theory and research inform classroom and professional practice, students take courses in theoretical foundations, learning environments, observation and assessment. Students also complete a field experience in *early childhood education* as part of the degree program.

This degree program prepares graduates for careers including: early childhood teacher educator; staff training and development; administration and evaluation; child, family and educational advocate; early childhood consultant; early childhood classroom teacher (requires teacher certification prior to the MS program). The MS *Early Childhood Education* option is available only on the OSU-Tulsa campus.

The *Developmental and Family Sciences* option prepares students to describe, discuss, and integrate theory, research, and application focused on reducing risk and enhancing resilience. In consultation with their major advisors and advisory committees, students identify courses and experiences that focus on preparing for research-related careers and/or doctoral study. Course work focuses on the integration of theory and research in human development and family science, research methods, and statistics. Students engage in research experiences through a research practicum and thesis. The *Developmental and Family Sciences* option is available on the OSU-Stillwater campus and as a dual campus program based on the OSU-Tulsa campus.

The *Marriage and Family Therapy* option is accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) of the American Association for Marriage and Family Therapy. The *Marriage and Family Therapy* option provides students with basic knowledge, clinical skills and a professional identity essential for entry level practice of marriage and family therapy. Students specializing in marriage and family therapy operate the Center for Family Services, an on-campus family therapy clinic. The MFT curriculum takes at least two and one half years (including summers) to complete. The academic course work includes courses in systems theory, marriage and family therapy techniques, ethics and professionalism, and research. Course work provides a framework for the application of marriage and family therapy theory and research in clinical practice. In addition, all students are required to take at least one calendar year of clinical practice. Graduation requirements include the completion of required course work, a minimum of 500 client contact hours, and the completion of either a thesis or creative component. The *Marriage and Family Therapy* option is only available on the OSU-Stillwater campus.

The *Gerontology* option engages students in an in-depth study of adulthood, the aging process, needs of aging individuals, and services for aging populations. Students may complete the on-campus program (thesis or non-thesis) or the online master's program through the

Great Plains Interactive Distance Education Alliance (Great Plains IDEA).

More information on HDFS MS programs may be obtained from the HDFS department, on the Internet <http://hes.okstate.edu/hdfs> or by e-mail hes-hdfs@okstate.edu. For additional information on the online master's program in Gerontology visit the Web site at www.ches.okstate.edu/gpidea or e-mail anne.mahoney@okstate.edu.

—The Doctor of Philosophy Degree. The PhD in human environmental sciences with option in human development and family science (HDFS) is a research doctoral program designed to promote breadth, depth and integration of knowledge in HDFS through research collaborations. Doctoral students collaborate with faculty and other graduate students on research projects which integrate the theoretical and empirical knowledge base in HDFS and investigate key processes associated with risk and resilience. Upon graduation, doctoral students have the knowledge and experience to develop into leading scholars able to conduct high quality basic and applied research, to provide relevant instruction, develop effective interventions, and contribute to the development of informed public policy that reduces risk and enhances resilience within individuals and among families across cultures and generations.

The PhD option in HDFS provides students with the opportunity to concentrate on one of the following disciplines: *Human Development* or *Family Science*. Students are admitted to the program to focus in a primary discipline in the department (human development or family science) and to take additional course work in a secondary discipline (human development is the secondary discipline for family science students and family science is the secondary discipline for students in human development).

PhD graduates are prepared to apply knowledge in human development and family science in a collaborative manner in diverse settings. To accomplish this goal, the program is designed around four primary themes: *breadth* (knowledge of substantive content across the two disciplines of human development and family science), *depth* (knowledge of substantive content within one discipline, either human development or family science), *integration* (knowledge synthesized to capitalize on the strengths of the disciplines of human development and family science), and *experience* (knowledge through involvement in research, instruction, and a variety of applications associated with reducing risk and enhancing resilience of individuals and families).

To achieve breadth, depth, and experience in the primary emphasis area and in the integration between human development and family science, students take courses and participate in individualized experiences, approved by their major adviser and doctoral advisory committee, that guide the student in mastering the forms (teaching, research and service) and functions (discovery of knowledge, integration of knowledge, application of knowledge and transmission of knowledge) of scholarship expected of doctoral graduates in HDFS.

The program requires a minimum of 60 semester hours beyond the master's degree and prerequisites, participation in research throughout the doctoral program, and qualifying examinations designed to provide the opportunity to integrate knowledge from the course work and experiences. Course work includes a minimum of 21 semester hours in human development and family science, 21 semester hours in research and statistics, three semester hours in human environmental science, and 15 hours of dissertation research. Students who did not complete a thesis for the master's degree are required to complete a thesis equivalent project (beyond the 60 semester hour requirement).

Admission to the PhD program is selective and requires the completion of an MS in human development, family science, or related field. Admission decisions are based on a variety of criteria including grade-point average (3.0 grade-point average in undergraduate

work and 3.5 in previous graduate study preferred; 3.25 in previous graduate study required), GRE scores (450 or higher in each of the Verbal, Quantitative and Analytical sections and 3.5 or higher on the Analytical Writing section preferred), TOEFL scores (required for students for whom English is a second language, 575 minimum), three letters of recommendation, a statement of student goals and a résumé. Students are required to complete both an OSU Graduate College Application and an HDFS Department Application.

More information on the PhD option in HDFS may be obtained from the HDFS department at <http://ches.okstate.edu/hdfs> or by e-mail: hes-hdfs@okstate.edu.

Nutritional Sciences

Nancy M. Betts, PhD, RD - *Professor and Head*

The Department of Nutritional Sciences advances health and quality of life of individuals and communities and prepares professionals through discovery, education and application of scientific knowledge.

Graduates are prepared for positions in health professions. Six degree options and a minor are offered through the department. Requirements for admission to most medical, dental and pharmacy schools can be met through the *human nutrition/premedical sciences* option. The human nutrition option is ideal for students desiring greater depth in the physiological and biochemical sciences in preparation for medical and other professional schools, graduate study and research in human nutrition.

The *dietetics* option and the *dietetics and exercise* option prepare students for diverse and dynamic professions that integrate human nutrition, food service administration, food science, chemistry, physiology, management and interpersonal skills. Both options meet the Didactic Program in Dietetics (DPD) accreditation requirements of the American Dietetic Association (ADA). The department requires a minimum of a 2.50 GPA for enrollment in professional courses in dietetics. The *dietetics and exercise* option can be used toward the fulfilling most of the American College of Sports Medicine's requirements for becoming a Certified Clinical Exercise Specialist (this certification requires 600 hours of practicum experience not offered in this option).

The dietetic internship at Oklahoma State University requires prior completion of the DPD requirements and meets the American Dietetic Association's supervised practice requirements for registration eligibility. Its mission is to provide students with the knowledge and skills necessary to practice as an entry-level dietitian. Entry into the dietetic internship is competitive requiring an application to and matching process through the American Dietetic Association.

When students successfully complete the academic requirements (DPD) and experience component (dietetic internship), they are eligible for the Registration Examination for Dietitians administered by the Commission on Dietetic Registration of the American Dietetic Association (ADA). Individuals who are successful on the examination become Registered Dietitians and are entitled to use the initials "R.D." to signify professional competence. Many states including Oklahoma also require a license to practice dietetics in the state.

The *allied health, nutrition and exercise, and community nutrition* options are for students who desire to work in the field of foods and nutrition but do not plan to become a registered dietitian. The *allied health* option provides required course work for most nursing schools, physician assistant's programs, schools of physical and occupational therapy and other health professions. The *nutrition and exercise* option can be used toward the fulfilling most of the American College of Sports Medicine's requirements for becoming a Certified Clinical Exercise Specialist (this certification requires 600 hours of practicum experience not offered in this option). The *community nutrition* option provides emphasis in nutrition education.

Nutrition professionals work in a wide range of settings, in both the public and private sectors and assume an array of challenging responsibilities. Career opportunities for a registered/licensed dietitian include: health care dietitian and administrator, nutrition or food science researcher, fitness/wellness consultant, public health nutritionist, entrepreneur in dietetic programs and services, and corporate dietitian/nutritionist.

Some of the specialized careers and university teaching require additional course work or advanced degrees.

All students admitted to the Dietetic Internship must be enrolled concurrently in an appropriate graduate program. Students successfully completing the program may, if desired, continue to work toward a graduate degree and may apply graduate course work from the internship to their degree programs.

Admission Requirements

Transfer students must have earned a 2.5 retention GPA in order to be admitted to the NSCI undergraduate program.

Further information may be found at <http://ches.okstate.edu/nsci>.

Graduate Programs

The Department of Nutritional Sciences offers graduate study leading to a Master of Science degree in nutritional sciences with an option in nutrition and a Doctor of Philosophy degree in human environmental sciences with a specialization in nutritional sciences. Graduate study in NSCI emphasizes research and the application of research to the field of human nutrition. Graduate students work with an advisor and advisory committee to develop flexible, yet rigorous programs of study and research that meet the degree requirements and student's professional goals within an area of specialization in the field.

The department also offers an online MS degree option in dietetics for Registered Dietitians through the Great Plains Interactive Distance Education Alliance (Great Plains IDEA) and participates in OSU's interdisciplinary food science program at the MS and PhD levels.

—The Master of Science Degree. The MS degree program is designed to develop research skills, stimulate independent thought and critical thinking, and provide up-to-date knowledge in a variety of areas of human nutrition. Admission to the MS graduate program is selective and is based on a variety of factors including the student's grade-point average, Graduate Record Examination (GRE) scores, letters of recommendation and goals. Students in the MS program nutrition option can choose one of two tracks: thesis or non-thesis. The MS degree with thesis requires a minimum of 30 credit hours, including six credit hours for thesis research or NSCI 5000. The non-thesis MS degree requires a minimum of 34 credit hours with three credit hours of NSCI 5870, a comprehensive examination, a written research paper, and an oral presentation. The student's plan of study and research is planned with their advisor and advisory committee. Thesis research is conducted within the advisor's area of interest and is approved by an advisory committee.

An online Master of Science degree in nutritional sciences with an option in dietetics is also offered to Registered Dietitians. Oklahoma State University is a member of the Great Plains IDEA interactive alliance which provides the opportunity for Registered Dietitians to earn a MS in dietetics via Internet-based courses. The program consists of 36 credit hours with three credit hours in NSCI 5870. Students will work with a faculty advisor and the graduate committee from the Nutritional Sciences department to complete the program requirements.

—The Doctor of Philosophy Degree. The PhD degree is awarded in human environmental sciences with an option in nutritional sciences. The focus of the program is to prepare individuals for careers in a variety of areas including higher education, industry, healthcare and governmental programs. Admission to the program is competitive and applicants are expected to provide evidence of exceptional

academic ability and preparation, a statement of goals and letters of recommendation. Grade-point average in previous undergraduate and graduate course work and Graduate Record Examination (GRE) scores are considered in the evaluation of the applicant. Completion of an MS thesis or thesis equivalent project is required. If a thesis was not required as a component of the applicant's MS program, a thesis or equivalent must be completed in addition to the requirements for the doctoral degree. Prerequisite course work for full admittance to the PhD program includes at least one graduate or undergraduate course in biochemistry and physiology, six credit hours at the graduate level in nutrition and three credit hours of statistics. Students with MS degrees in a subject area other than nutrition will also be required to have a minimum of 30 credit hours of undergraduate/graduate course work related to nutritional sciences, including the prerequisite courses listed above. Applicants who do not meet these requirements may be considered for conditional acceptance and required to take certain prerequisite courses.

The PhD program in nutritional sciences includes a strong emphasis on research in areas ranging from basic molecular and cellular sciences to clinical and community applications. Students also gain experience in resource generation, knowledge sharing and community engagement. Degree requirements include a minimum of 60 credit hours beyond the MS degree with 18-30 hours in an area of NSCI specialization, 18-30 hours in research support courses, 3 hours in human environmental sciences and 15 credit hours of dissertation research. The program of study and research is designed and developed under the direction of the faculty advisor and advisory committee.

The department also participates in OSU's interdisciplinary food science program at the MS and PhD levels. To acquire the competencies required, the candidates will need to study in their areas of emphasis and in selected areas within and outside the department.

More detailed information on graduate study in the Department of Nutritional Sciences can be obtained by writing the graduate coordinator, or on the Internet at <http://ches.okstate.edu/nsci>.