

Academic Programs and Degree Plans

College of Agriculture and Human Sciences

ADMINISTRATIVE OFFICER

Elizabeth N. Noel, *Dean*

ADMINISTRATIVE STAFF

Troy L. Daniels, *Coordinator, Human Sciences/Human Development and Family Studies*

Sharon L. McWhinney, *Coordinator, Dietetics/Human Nutrition and Food*

Alfred L. Parks, *Director, Cooperative Agricultural Research Center/Agriculture Economics*

Freddie L. Richards, *Director, International Agribusiness Studies/Agriculture and Human Resources*

Cecil L. Strickland, Sr., *Coordinator, Agriculture/Agriculture and Human Resources*

Linda Williams-Willis, *Administrator, Cooperative Extension Program/Family and Consumer Sciences*

PURPOSE AND GOALS

The College of Agriculture and Human Sciences shall serve as the catalyst to reinforce the basic land-grant function upon which the University was founded by promoting the coordination of programmatic activities among teaching, extension and research. The primary mission of the College shall be to strengthen the position of the University in matters relating to individuals and families and their interactive roles with social, economic and environmental systems.

Specifically, the programs in the College shall provide:

1. Instructional activities in Agriculture, Dietetics, and in Human Sciences, delivered through innovative classroom, laboratory and experiential learning experiences to prepare graduates for current and futuristic careers which respond to societal needs.
2. Research activities in the basic, applied and social sciences to produce information and technological developments which improve the social and economic conditions of targeted clientele in Texas, the nation, and the world, conducted primarily within the structured programs of the Cooperative Agricultural Research Center.
3. Extension activities to deliver research based information and informal educational opportunities focused on identified issues and needs of Texans of diverse ethnic and socioeconomic backgrounds giving emphasis to individuals that are historically unserved and underserved and conducted primarily within the structure of the Cooperative Extension Program.
4. International activities which develop sustainable linkages between human capital and natural resources and extend expertise in teaching, research and extension to assist in solving specific problems that restrain development in selected developing countries and conducted primarily within the structure of the Institute for International Agribusiness Studies.

Comprehensively, through involvement in professional and scientific activities, the College shall enhance the food, agricultural, and human sciences and strive to improve the quality of life for the residents of Texas, the nation and the world.

INSTRUCTIONAL ORGANIZATION

The College of Agriculture and Human Sciences is organized for instructional purposes into the following programs.

Programs

Degree Offered

Agriculture

B.S. Agriculture

Concentrations

Agricultural Economics
Agricultural Economics with World Food Distribution
Agriculture and Human Resources
(Agriculture Teacher Education)
Agronomy
Animal Science
Food Science

Human Nutrition and Food

B.S. Dietetics

Human Sciences

B.S. Human Sciences

Concentrations

Family and Consumer Sciences (Home Economics Teacher Education)
Human Development and the Family (Child and Family Studies)
Merchandising and Design

HONOR SOCIETIES AND CLUBS

Student organizations in the College are linked to national professional organizations and serve as vehicles to assist each student with professional development.

All Majors

Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS) is a national society that promotes and fosters the involvement of minorities in agriculture and related sciences. Chapters established at various colleges and universities are designed to develop a partnership between minority students in agriculture and natural resources and professionals from academic institutions, government agencies and industry by promoting professional development, networking, and career placement in a nurturing environment. Membership is open to people of all racial and ethnic backgrounds who support the objective of full ethnic group participation and achievement in agricultural and related science careers.

Agriculture

The *Agricultural Economics Club* is affiliated with the American Agricultural Economics Association and with the Southern Agricultural Economics Association. It encourages the professional growth and development of students majoring in agricultural economics. Membership is open to all agricultural economics majors.

Alpha Tau Alpha (ATA) is a national professional honorary agricultural educational fraternity. Membership is open to all Agriculture majors and minors who are sophomores or above and who satisfy the criteria as outlined in the constitution. The fraternity exists to develop a professional spirit in the teaching of agricultural science and technology, to assist in preparing teachers of agricultural science to become leaders in their communities, and to foster a fraternal spirit among students in the food and agricultural sciences.

The *American Society of Animal Science* encourages the professional growth and development of students majoring in animal science. Students participate in regional and national activities through chapter activities. Membership is open to all students majoring in animal science.

The *Rodeo Club* is affiliated with the National Intercollegiate Rodeo Association (NIRA). The rodeo team participates in rodeos sponsored by the Southern Region of the NIRA. At least 20 rodeos are sponsored by the Southern Region during the academic school year.

The Soil Conservation Society of America and the *American Society of Agronomy* is open to all students in agronomy. These societies provide students with the opportunity to become a part of the national conservation movement; to share information, fellowship, ideas, and experiences through the local, state, and national chapters; and to encourage students to demonstrate leadership and to participate in the activities of the local, state, and national organizations.

Human Sciences

The *Student Human Sciences Association* (SHSA), an affiliate of the Texas and American Association of Family and Consumer Sciences, provides opportunities for students to interact with pre-professionals in training and professionals in practice with specializations in research, public service, and teaching. Students gain opportunities for experiences with educational and governmental organizations focusing on critical issues facing the human sciences profession. Experiences with program planning and goal setting relative to the individual and the family, and consumer needs and demands are paramount. All human sciences majors are encouraged to become members as part of their pre-professional experience.

The *Kappa Beta Epsilon Chapter of Kappa Omicron Nu*, National Home Economics Honor Society, was installed on the campus in 1963 as the Beta Epsilon Chapter of Kappa Omicron Phi. Kappa Omicron Nu was formed during 1989-90 through the merger of two National Home Economics Honor Societies, Omicron Nu and Kappa Omicron Phi. Students majoring or minoring in human sciences or human nutrition and food are eligible for membership upon satisfying specific membership criteria as outlined by the constitution of the organization.

The Programs also encourage student participation in specialized student member affiliates of professional organizations supported by the major area. Students interested in gaining membership in these specialty organizations should consult with the major advisor.

ACADEMIC STANDARDS AND PROGRESS

Students enrolled in a degree program in the College of Agriculture and Human Sciences are required to fulfill the university requirements for successful academic progress toward graduation. In addition, students are expected to:

1. Earn a minimum grade point average of 2.50 in each program core and major course in the degree plan/option.
2. Earn an overall grade point average of 2.50 in courses required for the degree beyond the University core, but which are not offered by programs within the College.

Students who wish to transfer from other colleges and universities to the College must have a minimum grade point average of 2.50 in transfer credits accepted by the respective Program for unconditional admission, in addition to satisfying the general requirements specified in this catalog.

Students within the university who wish to transfer to the College must have a minimum grade point average of 2.25 in transfer credits accepted by the respective Program for unconditional admission.

Department of Agriculture, Nutrition and Human Ecology

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FACULTY

TeneInger Abrom-Johnson, *Family and Consumer Sciences*

Ronald S. Briggs, *Family Studies*

Minnie Cyrus, *Family and Consumer Sciences*

Barbara Dixon, *Human Nutrition and Food*

Eustace A. Duffus, *Family Studies*

Grace G. Gafford, *Family Studies*

Richard Griffin, *Agronomy/Soil Science*

Ann Y. Johnson, *Merchandising and Design*

Nathaniel Keys, *Agronomy/Horticulture*

Dalton McWhinney, *Animal Science*

Richard McWhorter, *Family Studies*

Wallace W. Migura, *Food Science*

Bobby Mixon, *Agricultural Economics*

Alfred N. Poindexter, *Animal Science*

Juanito C. Reyes, *Agronomy/Plant Science*

Eric Risch, *Food Engineering*

Nathaniel Shelton, *Animal Science*

Victor G. Stanley, *Animal Science*

Faye M. Walker, *Human Nutrition and Food*

Lindsey Weatherspoon, *Animal Science*

PURPOSE AND GOALS

The Agriculture program prepares the graduate to perform as an entry level professional in a broad range of areas including food, agricultural, and natural resource marketing, production, distribution and processing. The degree program is designed to provide a generalists emphasis that serves as the foundation for diverse careers and as a springboard for advanced study in agriculture and natural resource sciences and related fields. Concentrations are available in agricultural economics and agricultural economics with food distribution; agriculture teacher education, agronomy (Plant and environmental sciences); and animal and food science. These concentrations guide the student in defining an area for future specialization that can be attained at the graduate level and through professional practice. The emphasis in Animal and Food Science may also serve as pre-professional curricula for Veterinary Medicine. Courses that help the student qualify for professional study in veterinary medicine should be selected in consultation with an advisor.

Students enrolled in Agriculture are afforded opportunities to gain hands-on experience through laboratory, field exercises, cooperative education and summer job assignments. Students completing the program are able to demonstrate varied skills in many areas. Guidance and support are provided to foster personal development and leadership skills essential for effective professional practice in the chosen field of practice.

The program offerings in Human Sciences are developed on the premise that the family is the foundation of society. Quality family functioning within the social structure is fundamental to the functioning of all society. Therefore, programs are designed to provide:

1. a foundation and requisite skills for professional practice in areas related to individual, family, consumer and human developmental sciences
2. varied experiences which encourage a working knowledge of the interrelationship between the environment, consumer needs, resource management, and the social and emotional worlds of diverse individuals and families;
3. the fundamental knowledge, skills, and resources for comprehensive services to individuals and families in urban and rural communities worldwide; and
4. instructional support that guides the student in the development of competencies that enable them to enter graduate and professional schools which enhance skills for practice in the broad spectrum of the human sciences profession.

The degree program in Human Sciences is designed to provide a generalist emphasis and the foundation for specialization in the broad spectrum of careers related to child, family and community studies, family and consumer sciences teacher education, and fashion and related apparel merchandising and design.

The degree program in Dietetics is designed to provide quality dietetic education that enhances student development and provides an avenue toward the eligibility of students to become registered dietitians. The Human Nutrition and Food program is accredited by the Commission on Accreditation for Dietetics Education of the American Dietetics Association, 216 W. Jackson Blvd. Chicago, IL. 60606-6995; Telephone: 312-899-4876. A graduate in Human Sciences and Dietetics is positioned to provide services to individuals, families and their communities and to help effect an optimum balance between families and their environments. The graduate has the expertise to focus on family-community interactions, family problems and needs, the identification and efficient utilization of resources available to the individual and the family as consumer, and the components for optimal development of persons in our society.

BACHELOR OF SCIENCE IN AGRICULTURE DEGREE PROGRAM

The degree program in Agriculture is a generalist program that provides a broad based study of the food, agricultural and natural resource sciences. The Concentration options allow the student to gain depth in a specialty area and build the foundation for graduate study in the field. Each student must select one of the Concentration options in order to complete requirement for the degree, B.S. in Agriculture.

DEGREE PROGRAM REQUIREMENTS

Core Curriculum	42 SCH
All Agriculture Core Curriculum requirements are shown in the suggested degree program.	
Agriculture Program Requirements	60 SCH
AGEC 1233, 2213, 2223, 3213, 3223; AGEG 1413, 2423, 3413 or 4423; AGHR 1313, 3323, 4413; AGRO 1703, 2603, 2713, 3633; ANSC 1513, 2523 or 2553, 2533, 3503, 3523.	
Restricted Elective	3 SCH
Concentration	24 SCH
Total Degree Requirements	129 SCH

Concentration Options

Agricultural Economics

AGEC 4223, 4233, 4253; ACCT 2113 or 2123; ECON 2123, 4213 or 4223; MRKT 3323 or 4333; MATH 2003.

Consult an advisor. Additional semester credit hours may be required for specialized job requirements. Examples include: MATH 1115, 1125, 3023 or 3033.

Agricultural Economics with World Food Distribution Training

AGEC 3203, 3233, 3253, 4213, 4233; ACCT 2113 or 2123; ECON 2123; MATH 2003.

Agriculture and Human Resources (Teacher Education)

CUIN 3003, 3013, 4003, 4013, 4826; ENGL 2143; MATH 1123 or 2003.

Consult an advisor. Additional semester credit hours may be required for completion of teacher certification requirements. Examples include: Science Laboratory - 2 SCH; Human Performance - 4 SCH.

Agronomy

AGRO 2613, 2633, 2723, 3623, 3643, 3733, 4613, 4623.

Consult an advisor. Additional semester credit hours may be required for specialized job requirements. Examples include: BIOL 1034; CHEM 2013; MATH 1123.

Animal Science

ANSC 2513, 2543, 3513, 4533; FDSC 3583, 3593 or 4553, 4573; HUNF 3623.

Consult an advisor. Veterinary Medical School admission requirements may be achieved through this concentration. Additional semester credit hours are required.

Food Science

FDSC 3583, 3593, 4553, 4573; HUNF 3623, 3633, 4603, 4613.

Minor Requirements 24 SCH

Select 12 SCH lower division courses plus 12 SCH upper division courses in consultation with an advisor.

AGRICULTURE SUGGESTED DEGREE PROGRAM SEQUENCE

		FRESHMAN YEAR			
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
ENGL 1123	Freshman Composition I	3	AGEG 1413	Fund. of Agricultural Mechanics	3
POSC 1113	American Government I	3	ENGL 1133	Freshman Composition II	3
MATH 1113	College Algebra	3	ANSC 1513	General Animal Science	3
AGEC 1233	Fund. of Agricultural Economics	3	AGRO 1703	Crop Science	3
AGHR 1313	Agricultural Science and Technology	3	POSC 1123	American Government II	3
ANSC1513	General Animal Science	3		Science Elective	3
<i>Total</i>		<i>18</i>	<i>Total</i>		<i>18</i>

SOPHOMORE YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
HIST 1313 U.S. to 1876	3	HIST 1323 The U.S.-1876 to Present	3
AGRO 2603 Environmental Soil Science	3	ANSC 2553 Poultry Tech	3
AGHR 2123 Computer Applications in Agric.	3	Or ANSC 2523 Poultry Science	
AGEC 2213 Marketing Agricultural Products	3	SPCH 1003 Fund. of Speech Communication	3
AGEG 2423 Agricultural Machinery	3	AGEC 2223 Food Distribution Systems	3
Visual and Performing Arts Elective	3	HDFM 2533 Contemporary Family Humanities	3
Total	18	Total	18

JUNIOR YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
AGRO 3633 Soil Fertility & Fertilizers	3		
AGRO 2713 General Entomology	3	ANSC 3503 Animal Nutrition	3
AGHR 3323 Program Planning	3	AGEG 3413 Agriculture and Environment	3
ANSC 2533 Dairy Science Concentration	6	Or AGEG 4423 Farm Drainage	
		AGEC 3213 Agricultural Policy Concentration	3
Total	18	Total	15

SENIOR YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
AGEC 3223 Agricultural Financial Analysis	3	Concentration	6
ANSC 3523 Meat Science Concentration	6	Or AGHR 3996 Co-op/Internship	
		AGHR 4413 Special Topics Restricted Elective	3
Total	12	Total	12

HUMAN NUTRITION AND FOOD DEGREE PROGRAM REQUIREMENTS

The degree program in Dietetics is designed to provide quality dietetic education that enhances student development and provides an avenue toward the eligibility of students to become registered dietitians. The Human Nutrition and Food program is accredited by the Commission on Accreditation for Dietetics Education of the American Dietetics Association, 216 W. Jackson Blvd. Chicago, IL. 60606-6995; Telephone: 312-899-4876.

Core Curriculum **42 SCH**
 All Human Nutrition and Food Core Curriculum requirements are shown in the suggested degree program.

Human Nutrition and Food Program Requirements47 SCH
 AGHR 4413; HUSC 1343, 1351, 2373, 3323, 4304; HUNF 2633, 2653, 2663, 3623, 3633, 3653, 4603,
 4613, 4653, 4693

Support Area Requirements 30 SCH
 BIOL 1054, 1073; CHEM 2032, 2033, 4033; ECON 2113; MATH 2003; MGMT 3103;
 PSYC 1113; SOCG 1013

Electives 9 SCH

Total Degree Requirements 128 SCH

Concentration Option in Food Science 12 SCH
 FDSC 3583, 3593, 4553, 4573

Minor Requirements 18 SCH
 HUSC 1343; HUNF 2633, 2653, 2663, 4653, 4693

HUMAN NUTRITION AND FOOD SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
BIOL 1054	Anatomy and Physiology	4	CHEM 1033	General Inorganic Chemistry	3
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
HUSC 1343	Ecology of Human Nutrition	3			
MATH 1113	College Algebra	3	COMP 1003	Introduction to Computer Education	3
POSC 1113	American Government I	3	PSYC 1113	General Psychology	3
HUSC 1351	Human Sciences Perspectives	1	POSC 1123	American Government II	3
Total		17	Total		15

SOPHOMORE YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
CHEM 1043	General Inorganic Chemistry	3	HUNF 2633	Food Service Systems	3
HUNF 2653	Food Principles/Meal Management	3	HDFM 2553	Human Development and Lifespan	3
HUSC 2373	Consumers and the Market	3	HIST 1323	The U.S.-1876 to Present	3
BIOL 1073	General Microbiology	3	SPCH 1003	Fund. of Speech Communication	3
HIST 1313	U.S. to 1876	3		VISUAL PERFORMING ARTS	3
SOCG 1013	General Sociology	3	MATH 2003	Elementary Statistics	3
Total		18	Total		18

JUNIOR YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
CHEM 2033	Organic Chemistry	3	HUSC 3323	Program Planning II	3
CHEM 2032	Organic Chemistry Laboratory	2	HUNF 3653	Nutrition and Disease	3
HUNF 2663	Food Systems Management	3	MGMT 3103	Principles of Management	3
ECON 2113	Principles of Microeconomics	3		RESTRICTED ELECTIVE	6
HUNF 3623	Food Science and Technology	3			
ENGL 2153	Literature	3			
Total		17	Total		15

<i>First Semester</i>		SENIOR YEAR				<i>Hours</i>
		<i>Hours</i>	<i>Second Semester</i>			
CHEM 4033	Biochemistry	3	AGHR 4413	Special Topics	3	
HUNF 4603	Physiochemical Aspects of Food	3	HUNF 4693	Community Nutrition and Health	3	
HUNF 4653	Lifecycle Nutrition	3	HUNF 4613	Problems in Nutrition	3	
HUSC 4304	Family Consumer Econ. and Mgmt.	4	HUNF 3633	Advanced Nutrition	3	
	Elective	3		Restricted Elective	3	
Total		17	Total		15	

BACHELOR OF SCIENCE IN HUMAN SCIENCES DEGREE PROGRAM

The program in Human Sciences is a generalist program that provides a broad-based study of Family and Consumer Sciences. The Concentration options allow the student to gain depth in a Human Sciences specialty area while maintaining the foundation upon which to build in graduate study. Each student must select one of the Concentration areas in order to complete the requirements for the degree, B.S. in Human Sciences.

DEGREE PROGRAM REQUIREMENTS

Core Curriculum	42 SCH
All Human Sciences Core Curriculum requirements are shown in the suggested degree program.	
Human Sciences Program Requirements	53 SCH
AGHR 4413; HDFM 2553, 3513; HUNF 2633, 2653, 3633; HUSC 1303, 1313, 1333, 1343, 1351, 2373, 3313, 3323, 3353, 3373, 4304, 4363	
Concentration	24 SCH
Elective	9 SCH
Total Degree Requirements	128 SCH

Concentration Options

Family and Consumer Sciences Teacher Education

CUIN 3003, 3013, 4003, 4013, 4826;
 MATH 2003; Social Science Elective – 3 SCH
 Consult an advisor. Additional semester credit hours may be required for completion of teacher certification requirements. Examples include: Science Laboratory – 2 SCH, Human Performance – 4 SCH.

Human Development and the Family (Child and Family Studies)

HDFM 2513, 2533, 2543, 3503, 3523, 3543, 4513
 Elective – 3 SCH

Merchandising and Design

DESN 2113, 3123, MERC 3713, 3723, 3743, 4743, 4763, 4773

Minor Requirements	18 SCH
HUSC 2373, 3313, 3323, 4363; HDFM 2513, 2533	

HUMAN SCIENCES SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
ENGL 1123	Freshman Composition I	3	HUSC 1343	Ecology of Human Nutrition	3
POSC 1113	American Government I	3	HUSC 1351	Human Sciences Perspectives	1
MATH 1113	College Algebra	3	ENGL 1133	Freshman Composition II	3
COMP 1003	Introduction to Computer Education	3	DESN 1123	Design II	3
HUSC 1303	Elementary Textiles	3	Or HUSC 1313	Color and Design	
	Natural Science	3	POSC 1123	American Government II	3
				Natural Science	3
Total		18	Total		16

SOPHOMORE YEAR					
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
SPCH 1003	Fundamentals of Speech	3	HDFM 2533	Contemporary Family	3
HUSC 1333	Apparel Selection and Production	3	HUNF 2633	Food Service Systems	3
HUNF 2653	Food Principles/Meal Management	3	HIST 1323	The U.S.-1876 to Present	3
HUSC 2373	Consumers and the Market	3	HDFM 2553	Human Development Lifespan	3
HIST 1313	U.S. to 1876	3	ENGL 2153	Introduction to Literature	3
Total		15	Total		15

JUNIOR YEAR					
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
HDFM 3513	Individual/Family Counseling	3	HUNF 3633	Advanced Nutrition	3
HUSC 3313	Program Planning I	3	HUSC 3373	Child Development	3
HUSC 3353	Housing and Human Environments	3	HUSC 3323	Program Planning II	3
	Restricted Elective	3		Concentration	6
	Concentration	6		Restricted Elective	3
Total		18	Total		18

SENIOR YEAR					
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
HUSC 4303	Family Consumer Econ. and Mgmt.	3		Concentration	6
HUSC 4363	Family and Community Studies	3	Or HUSC 4306	Internship	
	Restricted Elective	3	AGHR 4413	Special Topics	3
	Concentration	6		Restricted Elective	
Total		15	Total		12