

# **COLLEGE OF APPLIED ARTS**

T. Jaime Chahin, Ph.D., Dean

## **Department Chairs/Program Chairs**

Aerospace Studies ..... Col. Daryl Hausmann, M.A.S.  
Agriculture ..... Hardin Rahe, Ph.D.  
Criminal Justice ..... Quint Thurman, Ph.D.  
Family and Consumer Sciences ..... B. J. Friedman, Ph.D.  
Military Science ..... LTC Ronald Deeds, M.S.  
Occupational Education ..... Stephen Springer, Ed.D.

## COLLEGE OF APPLIED ARTS

### Dean's Office:

Phone: (512) 245-3333

Fax: (512) 245-3338

Office: Agriculture Building 300

Web: <http://www.txstate.edu/appliedarts/>

### Advising Center:

Phone: (512) 245-1490

Fax: (512) 245-3338

Office: Agriculture Building 201

Web: <http://www.appliedarts.txstate.edu>

The College of Applied Arts' mission is to prepare undergraduate and graduate students for careers through programs of high quality in academic, professional, and technical areas; to further faculty excellence in teaching supported by quality scholarship; and to enhance our involvement with local, state, national, and international constituencies.

The College of Applied Arts offers four undergraduate degrees: (a) Bachelor of Science in Agriculture; (b) Bachelor of Science in Criminal Justice; (c) Bachelor of Science in Family and Consumer Sciences; and (d) Bachelor of Applied Arts and Sciences. In addition, the Departments of Aerospace Studies and Military Science prepare students for commissioning in the United States Air Force, United States Army, United States Army Reserves, or Army National Guard.

### Academic Advising Center

The mission of the College of Applied Arts Academic Advising Center is to provide accurate and timely advice to prospective and current students regarding their progress toward completion of degree programs administered by the college. Services include preparation of degree audits, assistance with degree planning, scheduling of classes, counseling for probation and suspension holds, evaluation of transfer work, and application for graduation. Please contact the Advising Center staff to schedule an appointment for advising. Staff are available to meet with students Monday through Friday from 8:00 a.m. to 5:00 p.m.

Twenty-one undergraduate majors (several with specialized options) are offered by three departments and one program within the College:

**Agriculture:** animal science, general agriculture with or without teacher certification, agricultural business and management with specializations in agribusiness operations, agricultural systems management, and horticultural business.

**Criminal Justice:** law enforcement, corrections, criminal justice.

**Family and Consumer Sciences:** family and consumer sciences (with consumer science option and teacher certification option), family and child development (with teacher certification option), fashion merchandising, interior design, nutrition and foods (with teacher certification option).

**Occupational Education Program:** applied arts and sciences. (Individualized degree program that offers adult opportunities to receive college credit for previous competencies acquired in the workplace as well as select a new career path or supplement skills in current path.)

Several of the College's programs have internship courses. An internship provides opportunities for students to further their education in an environment external to Texas State. These courses have minimum entrance requirements including good academic standing at the time of the internship. More specific course requirements are available from the department of your major.

Credit by exam, CLEP, DAN TES and other similar proficiency examinations satisfy degree requirements in the same way as credit earned by passing courses except that they do not count as credit earned in residence.

No more than six (6) semester credit hours of major courses beyond those that apply toward the major will count for credit toward graduation. Hours of major work beyond the six (6) semester credit hours will be treated as non-credit. These hours, however, will be a part of the cumulative Texas State GPA if they have been taken at Texas State.

Students who have earned at least 60 semester hours at Texas State are eligible to graduate with honors if they have a minimum Texas State GPA of 3.40.

**Department of Aerospace Studies**  
**Air Force Reserve Officer Training Corps**  
**Detachment 840**

Phone: (512) 245-2182      Office: Hines Building 108  
Fax: (512) 245-7474      Web: <http://www.txstate.edu/afrotc>

*Chair and Professor-Colonel Hausmann. Assistant Professors-Lt. Col. Lefforge, Capt. Victoria, Capt. Fernandez.*

### **Minor Offered**

- Aerospace Studies

The Air Force Reserve Officer Training Corps (AFROTC) Program at Texas State develops skills and attitudes vital to professional Air Force Officers. The purpose of the program is to commission qualified students who wish to serve in the United States Air Force. Two routes are available in AFROTC at Texas State. Entering students may either enroll in the four-year program or apply for the two-year program.

For the four-year program, students may register in the same manner as for other college courses. During the freshman and sophomore years of the program, students enroll in the General Military Course (GMC). Membership in the GMC does not confer any military status or commitment upon the cadet. After completion of the GMC, students compete for entry into the Professional Officer Course (POC), which is outlined below and normally is taken during the last two years of college.

The POC is designed to provide greater flexibility to meet the needs of students desiring a commission in the Air Force. The basic requirement is that the student has two full-time academic years remaining at either the undergraduate or graduate level to meet the minimum requirement of four semesters of POC academics and Leadership Laboratory. Students interested in the one- or two-year program should begin the application process well in advance of the term in which they plan to enter the program. Students may apply in writing or in person by visiting the Department of Aerospace Studies.

Selection for the POC is highly competitive. Criteria used to assess qualifications of applicants are the Air Force Officer Qualification Test (testing material and information is available through AFROTC), cumulative GPA, physical fitness test, and the recommendation of the Professor of Aerospace Studies. Before formal induction into the POC, applicants must complete a summer Field Training encampment paid for and conducted annually by the Air Force at various Air Force Installations. Students in the four-year program attend a four-week encampment, and students in the two-year program attend a six-week encampment. Upon completion of the six-week summer Field Training, two-year cadets may receive academic credit for AS 1110, 1120, 2110, and 2120.

Both GMC and POC members must attend a weekly two-hour laboratory each semester. The laboratory provides cadets an environment to develop, learn and practice Air Force leadership skills. Students interested in learning more about AFROTC may visit <http://www.afrotc.com> or contact the Department of Aerospace Studies and Detachment 840.

Students may compete for a variety of scholarships. Qualified students may apply during the fall or spring semester for a scholarship that covers the remaining years in the program. The scholarships provide full tuition, laboratory and incidental fees, and an allowance for books. In addition, scholarship students, regardless of classification, receive up to \$400.00 per month tax-free subsistence. Students may obtain complete scholarship information at the department.

According to current law, up to three semester hours of credit in a junior or senior ROTC course may be applied to the core curriculum history requirement (HIST 1310 or 1320) and up to three hours to the core curriculum government requirement (POSI 2320 only).

## Minor in Aerospace Studies

A minor in aerospace studies requires 19 hours, including AS 1110, 1120, 2110, 2120, 3311, 3312, 4311, 4312 and 3 hours of MATH.

### Courses in Aerospace Studies (A S)

**1000 Leadership Laboratory. (0-2)** An integral and mandatory two-hour lab accomplished concurrently with all Aerospace Studies courses. It is a progression of practical command and staff experiences that develop leadership potential. AFROTC cadets plan, organize, direct, coordinate, and control all activities. The lab is repeatable without credit because it focuses on different leadership processes.

**1110 The Air Force Today I. (1-0)** A study of the doctrine, mission, and organization of the United States Air Force; United States strategic offensive and defensive forces, their missions and functions; and employment of nuclear weapons. Co-requisite: A S 1000.

**1120 The Air Force Today II. (1-0)** An introduction to flight, oral and written communication for the Air Force officer, Air Force installations, the Air Force profession and how the Air Force integrates with the U.S. Army, Navy, Marines, and Coast Guard. Co-requisite: A S 1000.

**2110 The Development of Air Power I. (1-0)** A historical study of the development of air and space power beginning before the first powered flights through WWI, the inter-war years, and WWII, tracing the development of various air power concepts with a focus on factors prompting aerospace research and technological change. Co-requisite: A S 1000.

**2120 The Development of Air Power II. (1-0)** A continuation of A S 2110 studying the historical development of air and space power from Vietnam to the present. Events and trends in the history of airpower are examined, emphasizing examples of the impact of air and space power on strategic thought. Co-requisite: A S 1000.

**3311 Leadership and Management I. (3-0)** A study of the framework of leadership in the Air Force (AF), part 1. Practical case studies examine AF leadership and management situations and discipline and ethics scenarios that demonstrate applications of the concepts. The course emphasizes communication skills used by officers in the AF. Co-requisite: A S 1000.

**3312 Leadership and Management II. (3-0)** A study of the framework of leadership in the Air Force (AF), part 2. Practical case studies examine AF leadership and management situations and discipline and ethics scenarios that demonstrate applications of the concepts. The course emphasizes communication skills used by officers in the AF. Co-requisite: A S 1000.

**4311 National Security Forces in Contemporary American Society I. (3-0)** Part 1 of the study of professional Air Force (AF) officers in a democratic society; societal attitudes toward the armed forces; national defense structure, policy development; and military law. AFROTC cadets study topics that prepare them for duty as AF officers. The course emphasizes AF communication skills. Co-requisite: A S 1000.

**4312 National Security Forces in Contemporary American Society II. (3-0)** Part 2 of the study of professional Air Force (AF) officers in a democratic society; societal attitudes toward the armed forces; national defense structure, policy development; and military law. AFROTC cadets study topics that prepare them for duty as AF officers. The course emphasizes AF communication skills. Co-requisite: A S 1000.

## Department of Agriculture

Phone: (512) 245-2130  
 Fax: (512) 245-3320

Office: Agriculture Building 206  
 Web: <http://ag.txstate.edu/index.shtml>

*Chair and Professor-Rahe. Professor-Angirasa. Associate Professor-Cade. Assistant Professor-Pollard.*

### Degree Programs Offered

- BSAG, major in Agriculture
- BSAG, major in Agriculture (with teacher certification)
- BSAG, major in Agriculture - Business and Management (Agribusiness Operations Specialization)
- BSAG, major in Agriculture - Business and Management (Agricultural Systems Management Specialization)
- BSAG, major in Agriculture - Business and Management (Horticultural Business Specialization)
- BSAG, major in Agriculture - Animal Science

### Minors Offered

- Agriculture
- Animal Science
- Horticulture
- Plant and Soil Science

The Department of Agriculture offers programs reflecting the diversity of choices available and skills required in modern agriculture and its related professions. This dynamic, global industry uses new technologies to improve the production, management, manufacture, and distribution of food and agricultural products.

Agriculture (without teacher certification) provides a broad exposure to agriculture. With this curriculum, students may expect to manage a ranch or a farm, or work in any career that requires a general education such as extension, banking or government service.

Agriculture (with teacher certification) is a comprehensive educational program concerned with the broad field of agriculture. Emphasis in the curriculum is on production techniques, managerial skills and competencies necessary to function as agricultural scientists, educators, or agricultural managers in today's complex agricultural industry. Agricultural science teachers are certified to teach in grades nine through twelve in the public schools of Texas. See an advisor for course requirements.

Agriculture - Business and Management reaches far beyond the farm to encompass the activities involved in bringing food and fiber to consumers. Students may pursue three specializations with this major: Agribusiness operations, Agricultural systems management or Horticultural business.

Agribusiness operations students learn about the acquisition and use of capital, the working of the marketplace, financial institutions, and the effect of government policies on agriculture. Therefore, the agribusiness operations specialization includes courses in agricultural finance, marketing and policies dealing with resource use as well as courses in technical agriculture and general education.

Agricultural systems management integrates and applies engineering technology, agricultural sciences, and business. It prepares graduates for careers in technical fields and engineering such as agricultural machinery and power systems, electrical energy systems including sensors and controls, agricultural structures, surveying, and environmental systems including water utilization and quality. Students are involved with ongoing research, farm power and machinery, and precision farming and global positioning systems. Graduates are expected to assume positions of leadership and responsibility in careers such as product testing and service management, agricultural sales and services, and agricultural production systems.

Horticultural business as a specialization teaches management of commercial establishments and institutions that produce ornamental plants such as greenhouses and nurseries, floral shops and plant therapy businesses. The curriculum also contains specialized courses in horticulture that utilize rooftop greenhouses at the Agriculture Building and the laboratory facilities at the 17-acre Horticulture Center near campus.

Agriculture - Animal Science is the study of all aspects of the livestock and poultry industries including commercial production and management; food processing; and animal feed/animal health including nutrition, biotechnology and veterinary medicine. Involvement of students in ongoing faculty research prepares graduates for careers in reproductive physiology, applied animal genetics and live animal evaluation, as well as other areas of the livestock industry.

### **Pre-Professional Program in Pre-Veterinary Science**

The department supervises the pre-veterinary science program, which provides two years of specialized course work for students planning to enter veterinary school. Specific course requirements and additional information are listed in the Degrees and Programs section of this catalog.

### **Internship**

Students must apply for internships to the department a semester in advance and meet minimum GPA and course prerequisite requirements. For specific information about internships, contact the department chair.

### **Special Requirements**

1. Students cannot enroll in upper-level (3000 or 4000) agriculture courses until they have successfully completed MATH 1315 or 1319 and CHEM 1341, 1141.
2. ASD 1110, AG 2373, and AG 2390 must be successfully completed in the first 45 college credit hours.

## The Freshman Year

The courses specified below form a common freshman year to be taken by all majors in the department. Note that Systems management students may wish to take PHYS 1410 and 1420 instead of BIO 1430 to satisfy the general education laboratory science requirement.

<b>Freshman Year</b>	<b>Hours</b>
ASD 1110 .....	1
AG 1445, 2390.....	7
BIO 1430 .....	4
CHEM 1341, 1141 .....	4
COMM 1310.....	3
ENG 1310, 1320 .....	6
US 1100 .....	1
HIST 1310, 1320.....	6
PFW, two courses .....	2
<b>Total</b>	<b>34</b>

## Bachelor of Science in Agriculture Major in Agriculture (Minimum required: 132 semester hours)

Note: If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 132 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Sophomore Year</b>	<b>Hours</b>	<b>Junior Year</b>	<b>Hours</b>
AG 2373, 2383, 2313 or 2379.....	9	AG 3426.....	4
General Agriculture Core.....	6	General Agriculture Core .....	13
ENG Literature, ENG 3303 .....	6	Electives .....	9
MATH 1315, 2321.....	6	POSI 2310, 2320 .....	6
PHIL 1305 .....	3		
Social Science Component.....	3		
<b>Total</b>	<b>33</b>	<b>Total</b>	<b>32</b>
<b>Senior Year</b>	<b>Hours</b>		
General Agriculture Core.....	15		
Advanced electives .....	9		
ASD 4301 (Capstone Course).....	3		
ART, DAN, MU, or TH 2313.....	3		
AG 3319 .....	3		
<b>Total</b>	<b>33</b>		

## Agriculture Core

Core requirements are AG 2374, 3310, 3317 or 3318, 3427, 4325, 4326, 3353 or 4361, 4310, plus six (6) hours of upper-level courses in one of the agricultural areas shown below and three (3) hours from one of the remaining areas: animal science, agricultural systems management, agribusiness operations, or horticultural business.

**Bachelor of Science in Agriculture  
Major in Agriculture  
with teacher certification  
(Minimum required: 132 semester hours)**

Note: If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 132 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Sophomore Year</b>	<b>Hours</b>	<b>Junior Year</b>	<b>Hours</b>
AG 2373, 2383, 2313 or 2379, 2374.....	12	AG 2421 or 3305 or 3306 .....	3-4
ENG Literature, ENG 3303 .....	6	AG 3426.....	4
MATH 1315, 2321.....	6	AG 3310.....	3
PHIL 1305 .....	3	CATE 3313D .....	3
Social Science Component.....	3	AG 3319.....	3
POSI 2310, 2320.....	6	AG 3317 or 3318.....	3
ART, DAN, MU, or TH 2313.....	3	AG 3353 or 4361.....	3
		AG 3345.....	3
		CI 3310.....	3
		AG 4325.....	3
<b>Total</b>	<b>39</b>	<b>Total</b>	<b>31</b>
<b>Senior Year</b>	<b>Hours</b>		
FCD 3394 .....	3		
RDG 3323.....	3		
CI 4332 .....	3		
ASD 4301 (Capstone Course).....	3		
AG 4185 (taken three times).....	3		
AG 4343 .....	3		
ASD 4311 .....	3		
ASD 4212 .....	2		
ASD 4681 .....	6		
<b>Total</b>	<b>29</b>		

Concurrent Endorsements for Agricultural Science and Technology: Students completing certification requirements in General Agriculture may secure additional pre-employment program endorsements by completing the following courses:

General Agricultural Mechanics (PEL): AG 3375, and 4371E or 3455

Agricultural Power and Machinery (PEL): AG 4371, 3375

Horticulture (PEL): AG 3304, 4300



**Bachelor of Science in Agriculture**  
**Major in Agriculture - Business and Management**  
**(Minimum required: 128-131 semester hours)**

Note: If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 128 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Sophomore Year</b>	<b>Hours</b>	<b>Junior Year</b>	<b>Hours</b>
AG 2313 or 2379 .....	3	AG 3426.....	4
AG 2373, 2383.....	6	Agribusiness Core .....	6
Agribusiness Core.....	9-10	Specialization.....	9-10
ENG 3303 .....	3	POSI 2310, 2320 .....	6
ENG Literature .....	3	Electives .....	6
MATH 1315 or 1319 .....	3		
PHIL 1305 .....	3		
Social Science Component.....	3		
<b>Total</b>	<b>33-34</b>	<b>Total</b>	<b>31-32</b>
<b>Senior Year</b>	<b>Hours</b>		
Agribusiness Core.....	6		
Specialization.....	14-15		
ASD 4301 (Capstone Course).....	3		
ART, DAN, MU, or TH 2313.....	3		
AG 3319 .....	3		
<b>Total</b>	<b>29-30</b>		

### **Agribusiness Core**

Required core courses: AG 3317 or 3318, 3351, 3352, 3353 or 3375, 4380; ACC 2361; MATH 1329 or 2321 or 2417. Students are encouraged to enroll in 1000- and 2000-level courses in the sophomore year.

Agriculture - Business and Management Specializations

Agribusiness Operations: ACC 2362; AG 4381, 4383; ECO 2315, 3314, and nine hours of upper division electives with approval of department advisor.

Agricultural Systems Management: AG 2374 or 3311 or 4371(A-E), 3310, 3455, 4361; PHYS 1420, and six hours of electives with approval of department advisor.

Horticultural Business: AG 3304, 3305, 3306, 3311 or 3427, 3329, 4300 or 4302, and six hours of upper division electives with approval of department advisor.

**Bachelor of Science in Agriculture  
Major in Agriculture – Animal Science  
(Minimum required: 129 semester hours)**

Note: If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 129 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Sophomore Year</b>	<b>Hours</b>	<b>Junior Year</b>	<b>Hours</b>
AG 2313, 2373, 2383.....	9	AG 2421, 3314, 3321, 3351, 3426 .....	17
CHEM 1342, 1142.....	4	AG 3301.....	3
ENG Literature .....	3	CHEM 2330.....	3
MATH 1315, 2321.....	6	POSI 2310, 2320.....	6
PHIL 1305 .....	3	ENG 3303 .....	3
BIO 1431 .....	4		
Social Science Component.....	3		
<b>Total</b>	<b>32</b>	<b>Total</b>	<b>32</b>
<b>Senior Year</b>	<b>Hours</b>		
AG 3325, 3331, 4325, 4326, 4328, 4330 .....	18		
ASD 4301 (Capstone Course).....	3		
ART, DAN, MU, or TH 2313.....	3		
BIO 2400 or 4423 .....	4		
AG 3319 .....	3		
<b>Total</b>	<b>31</b>		

**Minor in Agriculture**

A minor in Agriculture requires 19 hours, which includes AG 1445, 2313, 2373, and 9 hours of advanced AG. A minor in agriculture is ideal for someone majoring in the life sciences, family and consumer sciences, or in any discipline where knowledge of the food and fiber industry would be beneficial.

**Minor in Animal Science**

A minor in Animal Science requires 19 hours, which includes AG 1445, 3325, 3331, and 9 hours selected from AG 3301, 3314, 3321, 4326, or 4330.

**Minor in Horticulture**

A minor in Horticulture requires 18 hours, which includes AG 2379, 3304, 3305, and 9 hours selected from AG 3306, 3455, 4300, or 4302.

**Minor in Plant and Soil Science**

A minor in Plant and Soil Science requires 20 hours, which includes AG 2313, 2421, 3426, and 9 hours selected from AG 3301, 3321, 3427, or 3455.

**Courses in Agricultural Service and Development (ASD)**

**1110 (AGRI 1131) Careers in Agri-Business and Industry. (1-0)** Career information and opportunities in the Agricultural World of Work will be emphasized. Qualifications and employment opportunities in Texas will be stressed.

**2310 Applied Leadership Principles. (2-2)** Preparation for professional leadership and service, with emphasis on application of leadership principles. The course will focus on guiding students in developing enhanced leadership skills through group and individual leadership enhancement projects and topic research. Prerequisite: ASD 1110.

(WI) **3310 Diversity Issues in the Workforce. (2-2)** Develop awareness and understanding of diversity issues relating to culture, ethnicity, gender, religion, sexuality, and society for pre-service agricultural practitioners who hope to integrate an understanding of work force diversity into their management style and professional behavior. Prerequisite: ASD 2310.

**4210 Principles of Agricultural Development. (2-0)** The principles and concepts of community leadership and development in changing urban and non-urban settings. Emphasis will be given to leadership styles and approaches, community development processes, and the leader's role in the change process. Prerequisites: ASD 2310 and 3310.

(WI) **4212 Program Building. (2-0)** This course will focus on program and curriculum development in agricultural education settings. Primary course elements will include determining program and curriculum goals and objectives, implementing the program, and curriculum evaluation.

(WI) **4301 Professional Development in Agriculture. (3-0)** This course requires students to select a topic of current interest appropriate to the major. Critical analysis of the situation including both positive and negative aspects will be encouraged. Findings will be presented in both oral and written form. (Capstone Course)

(WI) **4311 Instructional Methods for Career & Technology Educators. (2-2)** An analysis of the instructional techniques, strategies and methods appropriate to the effective teaching of career and technology subjects including application in the areas of instructional planning, organizing and evaluating learning activities, lesson preparation, diagnosis of learning differences, and the ethical and legal aspects of teaching. Teaching special populations and teaching in multicultural environments will also be addressed.

(WI) **4681 Student Teaching in Agricultural Science and Technology. (0-6)** Planning for teaching agricultural science in selected schools in Texas. Prerequisite: Senior classification.

## Courses in Agriculture (AG)

**1445 (AGRI 1419) Animal Husbandry. (3-2)** An introductory course designed to acquaint students with the importance of the livestock industry. A study of the types and breeds; market classes and grades of beef cattle, swine, sheep, goats, horses, and poultry; attention will be given to breeding, judging, care, and management.

**2215 Introduction to Equine Care and Use. (2-0)** Review of history and evolution of the equid; uses and identification of horses/breeds; anatomy and physiology of horses; gaits of horses; responsibilities of horse owners with respect to liability and insurance, nutrition and feeding, health care, facilities and breeding; overview of careers in the equine industry.

**2313 (AGRI 1307) Agronomic Crops. (2-2)** A study of the production, harvest practices, storage, and use of cereal and feed grains, fiber crops, forages, and other related crops requiring special technology.

**2320 Beginning Equitation. (1-4)** Develop riding skills using 'Centered Riding' techniques. Learn to properly groom, bridle and saddle, mount, ride and dismount horses. Control the horse at all gaits. Gain experience in evaluating riding ability and in effective teaching of equitation. Gain knowledge of the types of equine performances and competitions.

**2345 Horse Management. (2-2)** A course designed as a broad but thorough coverage of most areas of horse husbandry and production, including anatomy, physiology, breeding, feeding, training, and health care. Laboratory sessions are designed to acquaint the student with modern methods of breeding, training, and care of the horse.

**2367 Animal Ultrasonography. (2-2)** A study of current developments and utilization of animal ultrasonography technology in agriculture. Hands-on training in animal growth and development, animal breeding, animal handling and management, animal reproduction, computer technology and data interpretation.

**2373 (AGRI 2303) Introduction to Agricultural Engineering. (2-2)** An introductory course designed to acquaint students with a wide range of concepts, principles and applied technologies in agricultural engineering. A problem solving course.

**2374 Metals and Welding Processes for Agriculture. (2-2)** Principles and practices of applied metallurgy and welding. The course emphasizes the management of the technologies and techniques associated with Oxy-fuel welding and cutting. Shielded Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW), and Plasma Arc Cutting (PAC).

**2379 (AGRI 1315 & HORT 1301) General Horticulture. (2-2)** A survey of the general field of horticulture; a study of the principles and practices of propagation; the growth and fruiting habits of horticultural plants; and the culture, harvesting, handling, and utilization of fruit. Prerequisite: BIO 1410.

**2383 (AGRI 2317) Introduction to Agricultural Economics. (3-0)** The role of agriculture in the general economy; the study of basic economic concepts with their application to the agricultural firm; the structure and operation of the marketing system; the functional and institutional aspects of agricultural finance; international trade; and government farm programs.

**2390 (AGRI 1309) Computer Applications in Agriculture. (2-2)** Introduction to computers and computer technology; operation and application of the computer in production agriculture and agricultural business, services and industries. Includes characteristics of computer hardware and software, accessing and using the computer in agriculture.

**2421 Range Forage and Pasture Crops. (3-2)** Production, utilization and management of major range and forage plants in production systems that will meet the nutritional needs of both wild and domestic animals on a sustained basis.

**2310 Equine Performance Assessment and Evaluation. (0-4)** Influence of heredity, conformation, training and other factors on performance; detailed evaluation of athletic performance and conformation as it relates to function and criteria used for evaluation and selection of racing, show and breeding horses; use of oral and written evaluations will develop critical thinking skills.

**2320 Advanced Equitation. (0-4)** Further development of advanced riding skills in Western (to include equitation, Trail and Reining) and in Hunt Seat and Dressage riding disciplines; gain experience in designing patterns for the various equine disciplines and in evaluating and teaching others. Repeatable for credit with different emphasis. Prerequisite: AG 2320 or instructor consent.

(WI) **3301 Genetics of Livestock and Plant Improvement. (3-0)** Fundamental principles of genetics and their application to higher plants and animals. The physical basis of Mendelian inheritance, expression and interaction of genes, gene frequency, linkage, sex linkage, inbreeding, line breeding, and crossbreeding as applied to selection indices for livestock and plants.

**3302 Herbaceous Plant Materials. (2-2)** This course will include the identification, selection, use, and management of annuals, perennials, herbs, and ornamental grasses in the landscape. Each student will learn irrigation, fertilization, pruning, and other cultural needs of such plants. The laboratory will complement lecture.

**3303 Turf Management. (2-2)** Comparisons of turf grass for their landscape and recreational uses. Growth characteristics, methods of propagation, and basic management requirements, including control of important pest problems, are covered.

**3304 Propagation of Horticultural Plants. (2-2)** Principles and practices of propagating ornamental plants, vegetables, and fruits by sexual and asexual methods including germination of seed, layerage, graftage, division, cuttage, bulbs, corms, and other vegetative plant structures. Study of physical, physiological and environmental factors affecting propagation of ornamental plants.

**3305 Plant Materials for Outdoor Landscapes. (2-2)** Study of herbaceous and woody plant material including fruit and ornamental trees, shrubs, annuals, perennials, and ground covers. Their identification, nomenclature, and use in the planning and development of home landscapes. Basic principles and practices of landscape construction and maintenance such as site preparation, transplanting operation, control of plant pests, and pruning practices are included.

(WI) **3306 Flowers and Plants for Interior Design. (2-2)** Study of flowers, cut flowers, foliage and blooming pot plants to enhance the interior design of homes and businesses including their identification, cultural requirements, uses, diagnoses and corrective measures of disorders. Basic principles of flower arrangement and the preparation of floral and plant decoration as used in interior design.

**3308 Organic Gardening. (3-0)** Study of principles and practices that involve the production of vegetables by organic methods. Fertility and irrigation; as well as weed, insect and disease control by practices will be covered.

**3310 Internal Combustion Engines. (2-2)** To include principles of 2 stroke and 4 stroke cycle engines, ignition and combustion types including injection systems. Components including power and power transmissions and hydraulic systems to be addressed. Prerequisites: MATH 1315 and AG 2373.

**3311 Agricultural Practices and Pollution Control. (2-2)** Principles and practices of applied physical, chemical, and biological control of air, soil, and water pollution arising from production and processing of agricultural products. Prerequisites: CHEM 1341 and 1141, MATH 1315, AG 2373 and 2390.

**3314 Animal Health and Disease Control. (3-0)** A course designed to enable the animal science student to understand basic veterinary principles as applied to prevention of disease in domestic livestock. Common diseases of livestock are considered, with emphasis on sanitation and modern preventative methods concerned with keeping livestock healthy. Prerequisite: AG 1445.

**3317 Farm Management. (2-2)** Tools and techniques which are basic to the study of farm organization and decision making, the wise allocation of factors of production, the keeping of records, and income tax management. Prerequisites: AG 2383 and 2390, MATH 1315.

**3318 Agricultural Business Management. (3-0)** Introduction to the institutions and functions in agribusiness. The institutional structure of the agribusiness sector such as the feed, farm machinery and equipment, farm chemicals, financial institutions and private and public agri-services will be delineated. The second part of the course will introduce and develop the various functions such as organizational behavior, financial management, market management and human resource management. Prerequisites: AG 2383 and 2390 or consent of instructor.

**3319 International Food and Fiber Systems. (3-0)** Presents the food and fiber system from an international Component. Analysis of food production and consumption patterns under different world economic systems, causes of surpluses and shortages throughout the world; the role of trade in solving food and agricultural problems. Outlook and situation for food and fiber is discussed for both developed and developing nations, and impact of U.S. food policy on world trade flows is presented.

**3321 Range Management. (3-0)** Practical problems met in managing native pastures and rangelands. Attention to determining range condition and proper stocking rates, methods of handling livestock on the range, range reseeding, brush control, and poisonous plants. The ecological and physiological response of range vegetation to grazing.

(WI) **3325 Animal Nutrition. (3-0)** Principles of animal nutrition with emphasis on digestion, absorption, metabolism, and function of nutrients; estimation of feedstuff nutritive value; and requirements of animals. Prerequisites: CHEM 1341 and 1141, 1342 and 1142 and 1420 or 1430, AG 1445 or consent of instructor.

**3329 Economic Entomology. (3-0)** A study of the most common insects of field crops, fruits, vegetables, and farm animals; life history, methods of attack, damage, and means of preventing and controlling. Collection and mounts of insects will be made.

**3330 Equine Behavior & Training. (1-4)** Will provide students with information regarding all aspects of training horses. Students will work primarily with young horses. Group case study assignment will be required of all students. Repeatable for credit with different emphasis. Prerequisite: AG 2320.

**3331 Reproduction in Farm Animals. (2-2)** An examination of the anatomy and physiology of reproductive systems of livestock of economic importance. Attention is given to reproductive failure and disease. The laboratory includes pregnancy testing, semen collection and evaluation, artificial insemination techniques, and evaluation of breeding records. Prerequisite: AG 1445.

**3345 Livestock Selection and Evaluation. (2-2)** Detailed consideration of the factors involved in the selection and evaluation of beef cattle, sheep, swine, rabbits, goats, and chickens. Emphasis will be placed on the care, grooming and exhibition of livestock projects.

(WI) **3351 Agricultural Marketing and Sales. (3-0)** A study of the food marketing system and farm input sales; includes the functional systems approach that integrates the agricultural input industries into a discussion of food marketing; takes a micro approach to the development of marketing management skills needed in agribusiness; and provides a critical outlook on issues ranging from inputs to final food products. Prerequisites: AG 2383, and MATH 1315.

**3352 Quantitative Methods in Agricultural Economics. (3-0)** Principles involved in collection, tabulating and analyzing agricultural data. Topics include sampling procedures, questionnaire development, descriptive analysis of data, correlation, prediction and forecasting and tests of significance. Simple computer programs will be stressed for class exercises during the course. Prerequisites: AG 2383 and 2390, MATH 1315.

**3353 Agricultural Structures and Environment. (2-2)** Principles and practices associated with structural components, selection, materials of construction, heat and moisture control, and the environmental issues of waste management systems; a problem solving course. Prerequisites: MATH 1315, AG 2373 and 2390. Recommended: TECH 1413 and 2310.

**3375 Agricultural Machines and Equipment. (2-2)** The optimization of the equipment phases of agricultural production and processing. Emphasis will be placed on management and decision-making principles concerned with the efficient selection, operation, repair, maintenance, and replacement of machinery and equipment. Prerequisites: CHEM 1341 and 1141, MATH 1315, AG 2390

**3426 Soil Science. (3-2)** The fundamental principles of soil science to acquaint the student with some physical, chemical, and biological properties of the soil. Prerequisite: CHEM 1341 and 1141.

(WI) **3427 Environmental Soil Management Systems. (3-2)** Management of soils as pertaining to their place in the environment. Special emphasis will be given to the role of soil in conventional agricultural systems, natural resource systems, waste management systems, and reclaimed and artificial soil systems. Prerequisite: AG 3426.

**3455 Land Surveying. (2-4)** Engineering practices used in plane and geodetic surveying including differential and profile leveling, topographic, land, boundary and cadastral, and construction surveys. Laboratory exercises include use of dumpy levels, transits and total stations, and GPS (Global Positioning System) total station with RTK (real time kinematic). Planimeters and stereoscopes are used in analyzing aerial maps. Prerequisites: MATH 1315 or 1317 or 1319, AG 2373, AG 2390.

(WI) **4185 Current Problems in Technical Agriculture. (1-0)** A course for advanced undergraduates to study subject matter of special interest in agriculture. Problems in agronomy, economics, animal science, plant science, and farm mechanics may be selected. Prerequisite: Approval by department chair. May be repeated for up to three semester hours credit. Course may not be taken for graduate credit.

**4235 Equine Seminar. (2-0)** Provides the student the opportunity to explore topics in equine behavior, hippo therapy, exercise physiology, nutrition, reproductive physiology, hoof and eye physiology, geriatric care, and health care issues. Student will give presentations on various topics relevant to the equine industry. Prerequisite: 10 hours of equine courses.

(WI) **4300 Greenhouse and Nursery Management. (2-2)** Planning greenhouses for commercial and home use; plant-nursery layouts. Study of the physical and economic factors affecting the production of plants in the greenhouse and other forcing structures, and in the field; management techniques used in the production and marketing of greenhouse and nursery plants.

(WI) **4302 Fruit and Vegetable Crop Production. (2-2)** Factors influencing small-fruit and tree-fruit and vegetable crop production in the field including root stocks, varieties, soil, planting, transplanting, irrigating, fertilizing, pruning, insects, diseases, nematodes, weeds, chemicals, harvesting, storing, and marketing; greenhouse production of certain vegetables.

**4304 Landscape Management. (2-2)** To acquaint students with the practices and techniques used in professional landscape construction and management, and with the scientific and technical basis for such practices.

**4305 Landscape Design. (2-2)** Landscaping combines elements of art and science to create functional, aesthetically pleasing outdoor space. This class helps students develop knowledge of design elements and principles. Students learn site and client analysis techniques for critiquing landscapes. Students learn to communicate ideas through the planning and drawing of landscape plans.

**4306 Advanced Landscape Design and Construction. (2-2)** Students will become more adept at using computer applications for designing small commercial and residential landscapes. Students will also learn to apply landscape designs to installation and construction techniques. Prerequisite: AG 4305.

**4310 Agricultural Internship. (0-6)** Supervised on-the-job experience in an agriculturally related business or agency. This course may be repeated for credit with approval of the department chair or advisor. See department chair or advisor for prerequisites.

**4325 Feeds and Feeding. (2-2)** Study of feedstuffs used in livestock enterprises. Application of basic nutrients to the needs of different species of livestock. Formulating rations, methods of feeding, feed control laws, and feeding investigation.

(WI) **4326 Advanced Animal Husbandry-Ruminants. (3-0)** The application of scientific and technological advances to production and management in ruminant animal production and management.

(WI) **4328 Advanced Animal Husbandry-Nonruminants. (3-0)** Application of basic principles in the production and management of nonruminant animals. Scientific and technological advances with emphasis on overall management, health care, nutrition, genetics, physiology, and marketing of nonruminant animals.

**4330 Food Technology: Processing Meats. (2-2)** Evaluation and grading of carcasses; wholesale and retail cuts of beef, pork, lamb, and poultry. Emphasis on quality controls, testing of finished products that have been frozen, cured, fried, pickled, and canned.

**4343 Organization and Management for Laboratory Programs. (2-2)** Instructional programs involving laboratory equipment and facilities will be examined. Curriculum, teaching methods, equipment and facility management practices including various aspects of safety, tool management, inventory and security are emphasized along with facilities layout planning. Prerequisite: AG 2390.

**4361 Agricultural Electrification. (2-2)** Electrical fundamentals applied to agricultural production and processing. Circuits, power, energy, wiring design, and motor fundamentals; selection, installation and operational characteristics. Sensors and control devices including switches, relays, timers, and circuit breakers will be studied.

(WI) **4371 Topics in Agricultural Systems Management. (3-0)** Study of selected topics not currently available in existing courses.

4371R Equine Law. (3-0)

4371S Global Positioning Systems-Agricultural and Environmental Applications. (3-0)

**4380 Agricultural Finance. (3-0)** An introduction to finance and financial problems faced by agribusiness managers. The subject matter includes financial analysis, planning, and control; capital budgeting; capital structure, liquidity, and risk management; and financial markets. Prerequisites: AG 2383, MATH 1315, ACC 2361 and 2362.

(WI) **4381 Agricultural Policy. (3-0)** Identification and analysis of governmental programs and policies affecting the production and marketing of agricultural products. An economic evaluation of alternative policies and their application for farmers, consumers and agribusinesses will be considered. Prerequisite: AG 2383.

(WI) **4383 Agricultural Resource Economics. (3-0)** Economic concepts and institutional factors relating to the use of agricultural resources such as land, air, water, energy, space, etc. Emphasis is on the conservation of resources and the environmental interactions resulting from the use of natural resources for agricultural production. Prerequisite: AG 2383, MATH 1315 or 1319, or consent of instructor.

**4410 Equine Management and Production. (3-2)** The student will learn how to apply biological and business principles in order to effectively, efficiently and successfully run an equine enterprise. Prerequisites: Prior or concurrent enrollment in ACC 2361, AG 2215, AG 3351, and AG 3317 or 3318.



## Department of Criminal Justice

Phone: (512) 245-2174  
Fax: (512) 245-8063

Office: Hines Building 120  
Web: <http://www.cj.txstate.edu/>

*Chair and Professor-Thurman. Professors-Mijares, Mullins, Pollock, Stone. Associate Professors-Jamieson, McLaren, Perkins. Assistant Professors-Henson, Martinez, Supancic. Lecturers-Spencer.*

### **Degree Programs Offered**

- BSCJ, major in Criminal Justice
- BSCJ, major in Criminal Justice – Corrections
- BSCJ, major in Criminal Justice – Law Enforcement

### **Minor Offered**

- Criminal Justice

These degree programs prepare students to pursue advanced academic degrees and to serve the community in the operation and management of criminal justice agencies which include federal, state, county, and municipal law enforcement; probation; courts; institutional corrections; parole; and related agencies. The programs are founded on an interdisciplinary and academic approach to the role of criminal justice in the maintenance of social order in a democratic society.

Students pursuing a degree in criminal justice should be willing to meet the standards required of such a career. The majority of criminal justice agencies require sound academic preparation, psychological stability, physical agility, and a record free of felonies or excessive traffic offenses. All three programs include optional internships, and students selecting an internship option must meet criteria described below. The Criminal Justice major includes the development of advanced research and writing skills and includes interdisciplinary course work.

No more than 15 hours in criminal justice may be transferred from a two-year college. If the two-year college is in the state of Texas, the 15 hours must be composed of the five criminal justice core courses (or their equivalents).

### **Criminal Justice Core**

CJ 1310, 2310, 2350, 2355, and 2360 are required of all Criminal Justice majors.

### **Internship**

A student must meet the following requirements before being allowed to enroll in an internship course: Texas State GPA of 2.25, CJ GPA of 2.50, completion of 93 college course work hours (including 21 in CJ), ENG 1310 and 1320, CJ 3346, HIST 1310 and 1320, COMM 1310, MATH 1315, 1316 or 1319 and 2328 or CJ 3347, POSI 2310 and 2320, and 7 hours of Natural Science. Lab fee and permission of Internship Coordinator are also required.

**Bachelor of Science in Criminal Justice**  
**Major in Criminal Justice**  
**(Minimum required: 128 semester hours)**

## General Requirements:

1. For the Statistics requirement, SOCI 3307 is recommended for Sociology minors.
2. 6-8 hours of foreign language is required if two years of a foreign language were not completed in high school. This can be satisfied by the electives in the junior or senior year.

<b>Freshman Year</b>	<b>Hours</b>	<b>Sophomore Year</b>	<b>Hours</b>
CJ 1310 .....	3	CJ 2310 .....	3
COMM 1310.....	3	CJ 2350 .....	3
ENG 1310, 1320 .....	6	CJ 2355 .....	3
HIST 1310, 1320.....	6	CJ 2360 .....	3
MATH 1315, 1316, or 1319.....	3	CS 1308.....	3
PFW (2 courses).....	2	Natural Science component.....	7-8
PHIL 1305 .....	3	POSI 2310, 2320 .....	6
PSY 1300.....	3	Statistics: CJ 3347, MATH 2328, or	
SOCI 1310 .....	3	SOCI 3307.....	3
US 1100 .....	1		
<b>Total</b>	<b>33</b>	<b>Total</b>	<b>31-32</b>
<b>Junior Year</b>	<b>Hours</b>	<b>Senior Year</b>	<b>Hours</b>
ART, DAN, MU, or TH 2313 .....	3	CJ 4301, 4302 (Internship option) <b>or</b>	
CJ 3300 .....	3	CJ 4365, CJ advanced elective	
CJ 3323 .....	3	(Non-internship option).....	6
CJ 3346.....	3	CJ 4310 .....	3
CJ advanced elective.....	3	CJ 4340 .....	3
ENG Literature .....	3	CJ advanced electives .....	6
Advanced electives or Minor .....	6	Advanced electives or Minor .....	6
Electives or Minor .....	7	Electives or Minor.....	9
<b>Total</b>	<b>31</b>	<b>Total</b>	<b>33</b>

**Bachelor of Science in Criminal Justice**  
**Major in Criminal Justice - Corrections**  
**(Minimum required: 128 semester hours)**

General Requirements:

1. For the Statistics requirement, SOCI 3307 is recommended for Sociology minors.
2. 6-8 hours of foreign language is required if two years of a foreign language were not completed in high school. This can be satisfied by the electives in the junior or senior year.

<b>Freshman Year</b>	<b>Hours</b>	<b>Sophomore Year</b>	<b>Hours</b>
CJ 1310 .....	3	CJ 2310 .....	3
COMM 1310.....	3	CJ 2350 .....	3
ENG 1310, 1320 .....	6	CJ 2355 .....	3
HIST 1310, 1320.....	6	CJ 2360 .....	3
MATH 1315, 1316, or 1319.....	3	CS 1308.....	3
PFW (2 courses).....	2	Natural Science component.....	7-8
PHIL 1305 .....	3	POSI 2310, 2320 .....	6
PSY 1300.....	3	Statistics: CJ 3347, MATH 2328, or	
SOCI 1310 .....	3	SOCI 3307.....	3
US 1100 .....	1		
<b>Total</b>	<b>33</b>	<b>Total</b>	<b>31-32</b>
<b>Junior Year</b>	<b>Hours</b>	<b>Senior Year</b>	<b>Hours</b>
ART, DAN, MU, or TH 2313 .....	3	CJ 4301, 4302 (Internship option) <b>or</b>	
CJ 3300 .....	3	CJ 4365, CJ advanced elective	
CJ 3323 .....	3	(Non-internship option).....	6
CJ 3325 .....	3	CJ 4310 .....	3
CJ 3346 .....	3	CJ 4316 .....	3
ENG Literature .....	3	CJ 4340 .....	3
Advanced electives or Minor .....	6	CJ 4352 .....	3
Electives or Minor .....	7	Advanced electives or Minor .....	6
		Electives or Minor.....	9
<b>Total</b>	<b>31</b>	<b>Total</b>	<b>33</b>

**Bachelor of Science in Criminal Justice**  
**Major in Criminal Justice – Law Enforcement**  
**(Minimum required: 128 semester hours)**

## General Requirements:

1. For the Statistics requirement, SOCI 3307 is recommended for Sociology minors.
2. 6-8 hours of foreign language is required if two years of a foreign language were not completed in high school. This can be satisfied by the electives in the junior or senior year.

<b>Freshman Year</b>	<b>Hours</b>	<b>Sophomore Year</b>	<b>Hours</b>
CJ 1310 .....	3	CJ 2310 .....	3
COMM 1310.....	3	CJ 2350 .....	3
ENG 1310, 1320 .....	6	CJ 2355 .....	3
HIST 1310, 1320.....	6	CJ 2360 .....	3
MATH 1315, 1316, or 1319.....	3	CS 1308.....	3
PFW (2 courses).....	2	Natural Science component.....	7-8
PHIL 1305 .....	3	POSI 2310, 2320 .....	6
PSY 1300.....	3	Statistics: CJ 3347, MATH 2328, or	
SOCI 1310 .....	3	SOCI 3307.....	3
US 1100 .....	1		
<b>Total</b>	<b>33</b>	<b>Total</b>	<b>31-32</b>
<b>Junior Year</b>	<b>Hours</b>	<b>Senior Year</b>	<b>Hours</b>
ART, DAN, MU, or TH 2313 .....	3	CJ 4301, 4302 (Internship option) <b>or</b>	
CJ 3300 .....	3	CJ 4365, CJ advanced elective	
CJ 3323 .....	3	(Non-internship option).....	6
CJ 3329 .....	3	CJ 4310 .....	3
CJ 3346 .....	3	CJ 4332 .....	3
ENG Literature .....	3	CJ 4340 .....	3
Advanced electives or Minor .....	6	CJ 4350 .....	3
Electives or Minor .....	7	Advanced electives or Minor .....	6
		Electives or Minor.....	9
<b>Total</b>	<b>31</b>	<b>Total</b>	<b>33</b>

## Minor in Criminal Justice

A minor in criminal justice requires 18 hours, which includes CJ 1310, 6 hours selected from the criminal justice core: CJ 2310, 2350, 2355, or 2360, and 9 advanced CJ hours.

### Courses in Criminal Justice (CJ)

**1310 (CRIJ 1301) Introduction to Criminal Justice. (3-0)** History and philosophy of criminal justice: ethical considerations, crime defined, overview of criminal justice system, law enforcement, court system, prosecution and defense, trial process, and corrections.

**2310 (CRIJ 2328) Police Systems and Practices. (3-0)** Police profession: organization of law enforcement systems, the police role, police discretion, ethics, police-community interaction, and current and future issues. Prerequisite: CJ 1310.

**2350 (CRIJ 1306) The Courts and Criminal Procedure. (3-0)** Judiciary in the criminal justice system: structure of American court system, prosecution, right to counsel, pre-trial release, grand juries, adjudication process, types and rules of evidence, and sentencing. Prerequisite: CJ 1310.

**2355 (CRIJ 2313) Correctional Systems and Practices. (3-0)** Corrections in the criminal justice system: organization of correctional systems, correctional role, institutional operations, alternatives to institutionalization, treatment and rehabilitation, and current and future issues. Prerequisite: CJ 1310.

**2360 (CRIJ 1310) Fundamentals of Criminal Law. (3-0)** A study of the nature of criminal law: philosophy and historical developments, major definitions and concepts, classification of crime, elements of crimes and penalties using Texas Statutes as illustrations, and justifications of and defenses to criminal responsibility.

(WI) **3300 Juvenile Justice. (3-0)** A study of the juvenile justice process to include both the specialized juvenile law and the role of the courts, police and corrections in juvenile justice. Prerequisite: CJ 1310.

**3323 Mid-Level Management in Criminal Justice Agencies. (3-0)** Introduction and overview of the organizational theories of classical behavioral, and systems management concepts. Included in the course content are analyses of the functions of management in modern CJ organizations, internal and external environmental factors, individual & group dynamics, motivation, and leadership styles. Prerequisites: CJ 1310 and 2310 or 2355.

**3325 Penology. (3-0)** Role of the institution in the process of corrections including the philosophy of imprisonment, the inmate subculture and special problems and programs in institutions. Prerequisite: CJ 1310 and 2355.

**3329 Forensic Evidence. (3-0)** Investigator's role in collecting, preparing and presenting evidence in criminal trials. Special attention will be given to electronic evidence in addition to traditional physical evidence. Prerequisites: CJ 2350 and 2360.

(WI) **3346 Research in Criminal Justice. (3-0)** Analysis of criminal justice research, survey methods, and the utilization of research in criminal justice. Prerequisite: CJ 1310, CS 1308 or equivalent and Statistics (MATH 2328, PSY 3301, SOCI 3307 or equivalent).

**3347 Statistics For Criminal Justice. (3-0)** The theory and application of statistical inferential techniques, and correlation and regression for behavioral science data and its applications in Criminal Justice. Emphasis is on the collection, analysis, and interpretation of statistical data in criminal justice settings.

(WI) **4301-4302 Internship I and II. (0-6)** Field service training in public and private criminal justice agencies at the federal, state and local levels. The internship is designed to provide actual work experience, observation, and analysis in the student's chosen career field. (See departmental information under "Internship").

**4309 Special Topics in Criminal Justice. (3-0)** This course is designed to educate students about important emerging, temporal, and evolving crime and justice issues at the local, national, and global levels. Students will gain content knowledge necessary for a broad-based cross-cultural understanding of operational justice in the 21<sup>st</sup> Century.

**4309A Cybercrime. (3-0)**

**4309B Serial Murder. (3-0)**

**4309C Special Operations Units in Law Enforcement and Corrections. (3-0)**

(WI) **4310 Special Problems in the Criminal Justice System. (3-0)** A study of contemporary problems in administration, management, organization and operation of criminal justice agencies. Prerequisite: CJ 2310, 2350, 2355, 2360. (Capstone Course).

**4314 Terrorism in the United States. (3-0)** Terrorist groups operating in the U.S. are examined with special emphasis on the far-right (militia, Christian identity, neo-nazi, other racist groups). Analyzed are their belief systems and structures, organizational structure, tactics and targets, and weapons. Future trends are discussed, including the threat posed by nuclear, biological, and chemical terrorism.

**4316 Treatment in Community and Institutional Corrections. (3-0)** A study of community based programs for adult and juvenile offenders, treatment modalities in various correctional settings, administration, legal issues, and future trends associated with community-based and institutional based treatment. Prerequisites: CJ 2355 and 3325.

**4321 Occupational Crime. (3-0)** A study of the problems of organized and upper social status criminal activities with emphasis on statutes and their application to fraud, embezzlement, deceptive trade practices and illegal trade practices.

(WI) **4326 Women and Criminal Justice. (3-0)** This course is designed to explore women's involvement in three primary areas of criminal justice-as victims, criminals and practitioners employed in criminal justice agencies. It will analyze the impact of sex and gender on such things as criminological theory, sentencing, prison subcultures victimization and career choices. Prerequisite: junior standing.

(WI) **4327 Ethics of Social Control. (3-0)** This course is designed to explore moral decision making. Basic moral or ethical frameworks are applied to ethical decision which often need to be made in the criminal justice system. Prerequisite: junior standing.

**4329 Organized Crime. (3-0)** Survey of organized crime in contemporary society. Includes attention to crime types and methods, motivation, affiliations, and the effects of this type of criminality. Related legal and law enforcement perspectives will be covered, along with international and cyberspace issues. Prerequisite: CJ 1310.

**4332 Advanced Criminal Justice Management. (3-0)** A critical analysis of the nature of organizations within the criminal justice system. An analysis of theories of organizations and of organizational changes within law enforcement agencies. An examination of the quantitative data gathered by the Criminal Justice System and its effective use and presentation. Prerequisites: CJ 1310 and 2310 or 2355.

(WI) **4340 Crime Theory and Victimization. (3-0)** Examination of the causes of crime and crime victimization and competing explanations for crime and the impact of crime on crime victims. This course draws on perspectives advanced by a number of diverse fields of inquiry, for example, biology, psychology, sociology, and the political and economic sciences. Prerequisites: CJ 1310 and 3300.

(WI) **4350 Contemporary Legal Issues in Law Enforcement. (3-0)** An in-depth study of recent developments in criminal law and procedure. Their effects upon the criminal justice agency official in society will be given special attention. Includes specific case studies with emphasis on analyzing factual situations and legal issues. Prerequisites: CJ 1310, and 2310.

(WI) **4352 Contemporary Legal Issues in Corrections. (3-0)** A study of the developing body of law defining the rights and duties of persons confined in penal institutions with equal emphasis on legal issues associated with probationers, parolees, and similar status's within the corrections branch of the criminal justice system. Prerequisite: CJ 1310 and 2355.

**4362 Readings in Criminal Justice. (3-0)** An individualized readings course tailored to the academic and professional interests and needs of the student. Emphasis is placed on developing in-depth knowledge of selected criminal justice subjects through directed research. Repeatable for credit with different emphasis. (Permission of instructor is required for course registration.)

**4363 Independent Studies in Criminal Justice. (3-0)** Independent study and research on topics in criminal justice related to a student's primary area of interest. Work may include individual research, critical reviews or integration of existing body of knowledge. Course may be repeated with different emphasis once for credit with approval of department chair.

(WI) **4365 Comparative Criminal Justice. (3-0)** A survey of the organizational, administrative and philosophical principles of criminal justice systems around the world. Prerequisite: CJ 1310 and 2310 or 2355.

## Department of Family and Consumer Sciences

Phone: (512) 245-2155  
 Fax: (512) 245-3829

Office: Family & Consumer Science Building 101  
 Web: <http://www.fcs.txstate.edu>

*Chair and Professor-Friedman. Professors-Allen, Laman, Williams. Associate Professors-Blunk, Crixell, Garstka, Thompson, Wuest. Assistant Professors-Blaylock, Dedek, Granato, Hill, Russell, Toews, Vattem, Welkey, Yazedjian.*

### Degree and Majors Offered

- BSFCS, major in Family and Consumer Sciences
- BSFCS, major in Family and Consumer Sciences (Consumer Science Option)
- BSFCS, major in Family and Consumer Sciences (with teacher certification)
- BSFCS, major in Family and Child Development
- BSFCS, major in Family and Child Development (with teacher certification)
- BSFCS, major in Fashion Merchandising
- BSFCS, major in Interior Design
- BSFCS, major in Nutrition and Foods
- BSFCS, major in Nutrition and Foods (with teacher certification)

### Minors Offered

- Consumer Science
- Early Childhood Intervention
- Family and Child Development
- Family and Consumer Sciences
- Fashion Merchandising

**Family and Consumer Science** majors have a choice of three different tracks: Consumer Science, Family and Consumer Sciences, and Family and Consumer Sciences teacher certification. Students choosing the Consumer Science track study family financial decisions and the role of the consumer in the economy. Students prepare for such careers as business consumer liaisons, consumer advocates, or government agency employees. In the Family and Consumer Sciences track, students take courses from all areas of Family and Consumer Sciences and select a minor. Graduates seek employment in business, the extension service, and community agencies. The teacher certification option, approved by the Texas Education Agency, certifies graduates to teach family and consumer sciences in secondary public schools.

**Family and Child Development** majors work in family and child programs, and community agencies. Using an interdisciplinary approach, students focus on human development and relationships across the lifespan.

**Fashion Merchandising** prepares majors for careers in the merchandising and promotion of fashion goods and services including: apparel, home furnishings and a variety of other consumer products. Most students choose to complete a Business Administration minor.

**Interior Design** prepares students for careers as residential and/or commercial interior designers. The program is accredited by the Foundation for Interior Design Education Research (FIDER), the recognized accrediting agency for the discipline. Students learn to communicate their design concepts and to solve design problems.

**Nutrition and Foods** majors study how the selection, processing, and consumption of foods affect the attainment and maintenance of health. They prepare for careers in medical nutrition therapy, food service administration, public health nutrition programs, private practice and the food industry. The program is accredited by the Commission on Accreditation for Dietetics Education and fulfills didactic requirements for Texas licensing. Graduates are qualified to apply for post-graduate dietetic internships in pursuit of Registered Dietitian Certification.



**Family and Consumer Sciences Core**

To provide a common body of knowledge in Family and Consumer Sciences, all majors are required to complete: 4100 and 4301 within the major, FCS 4347, and two (2) departmental courses from outside the major.

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Family and Consumer Sciences**  
**(Minimum required: 128 semester hours)**

## General Requirements:

1. In addition to general education core curriculum and departmental core requirements, the Family and Consumer Sciences major is required to take courses in all areas of Family and Consumer Sciences.
2. Majors participate in an internship in a related area.
3. MATH 1316 is not accepted as a prerequisite for courses in some minors.
4. At least three hours of the electives must be writing intensive.
5. A minor is required.
6. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 128 hours required for the degree will fulfill the language requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>
FCS 1341 .....	3
FCD 1351 .....	3
ID 1321 .....	3
NUTR 1360 .....	3
FM 1332 or 2331 .....	3
ENG 1310, 1320 .....	6
U S 1100 .....	1
HIST 1310, 1320.....	6
MATH 1315 or 1316 or 1319 .....	3
PFW one course .....	1
<b>Total</b>	<b>32</b>

<b>Junior Year</b>	<b>Hours</b>
FCS 3341, 3342 .....	6
FCD 2351 .....	3
ID 3329.....	3
ART, DAN, MU or TH 2313.....	3
COMM 1310.....	3
Minor electives .....	9
Social Science Component.....	3
Elective .....	2
<b>Total</b>	<b>32</b>

<b>Sophomore Year</b>	<b>Hours</b>
FCS 1347 .....	3
NUTR 2462.....	4
NUTR 2360 or 3362.....	3
ENG Literature.....	3
PHIL 1305.....	3
PFW one course .....	1
POSI 2310, 2320 .....	6
Natural Science Component.....	7-8
Elective .....	3
<b>Total</b>	<b>33-34</b>

<b>Senior Year</b>	<b>Hours</b>
FCS 3391 .....	3
FCS 4100, 4301, 4341, 4347 .....	10
FCD 3355 or 4351.....	3
Minor, advanced electives.....	9
Advanced electives.....	6
<b>Total</b>	<b>31</b>

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Family and Consumer Sciences**  
**(with Consumer Science Option and**  
**Minor in Business Administration)**  
**(Minimum required: 128 semester hours)**

General Requirements:

1. In addition to general education and departmental core requirements, the consumer science option requires specialized courses in consumer education, family and personal resource management, family finance, consumer law, family financial counseling, and family policy.
2. Students participate in an internship in a related area.
3. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 128 hours required for the degree will fulfill the language requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>
FCS 1341, 1347 .....	6
FM 1332 or 2331 .....	3
COMM 1310.....	3
ENG 1310, 1320 .....	6
U S 1100 .....	1
HIST 1310, 1320.....	6
MATH 1315 or 1319 .....	3
PHIL 1305. ....	3
PFW one course .....	1
<b>Total</b>	<b>32</b>

<b>Junior Year</b>	<b>Hours</b>
FCS 3341, 3342, 4303 .....	9
NUTR 3362 .....	3
FCD 3355 or 4351 .....	3
Business - select four from: BLAW 2361; CIS 3317; FIN 3325; MGT 3303; MKT 3343 .....	12
ECO 2314, 2315 .....	6
<b>Total</b>	<b>33</b>

<b>Sophomore Year</b>	<b>Hours</b>
ID 3329 .....	3
Department elective .....	3
ACC 2301 .....	3
ENG Literature.....	3
Natural Science Component.....	7-8
POSI 2310, 2320 .....	6
Social Science Component.....	3
PFW one course .....	1
Elective .....	3
<b>Total</b>	<b>32-33</b>

<b>Senior Year</b>	<b>Hours</b>
FCS 3391, 4100, 4301, 4341, 4347 .....	13
Department elective .....	3
ART, DAN, MU, or TH 2313 .....	3
Electives.....	12-13
<b>Total</b>	<b>31-32</b>

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Family and Consumer Sciences**  
**(with Consumer Science Option and**  
**Minor in Mass Communication)**  
**(Minimum required: 128 semester hours)**

General Requirements:

1. In addition to general education and departmental core requirements, the consumer science option requires specialized courses in consumer education, family and personal resource management, family finance, consumer law, family financial counseling, and family policy.
2. Students participate in an internship in a related area.
3. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 128 hours required for the degree will fulfill the language requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>	<b>Sophomore Year</b>	<b>Hours</b>
FCS 1341, 1347 .....	6	ID 3329 .....	3
FM 1332 or 2331 .....	3	Department elective .....	3
COMM 1310.....	3	ACC 2301 .....	3
ENG 1310, 1320 .....	6	ENG Literature.....	3
U S 1100 .....	1	Natural Science Component.....	7-8
HIST 1310, 1320.....	6	POSI 2310, 2320 .....	6
MATH 1315 or 1319 .....	3	Social Science Component.....	3
PHIL 1305 .....	3	PFW one course .....	1
PFW one course.....	1		
<b>Total</b>	<b>32</b>	<b>Total</b>	<b>29-30</b>
<b>Junior Year</b>	<b>Hours</b>	<b>Senior Year</b>	<b>Hours</b>
FCS 3341, 3342, 4303 .....	9	FCS 3391, 4100, 4301, 4341, 4347 .....	13
NUTR 3362 .....	3	Department elective .....	3
FCD 3355 or 4351 .....	3	MC 3343, 3355, 3367, 4302.....	12
MC 1301, 3375, 4303, 4356C, 4310, or 4308 (select two courses).....	6	Electives .....	6
ECO 2314, 2315 .....	6		
ART, DAN, MU, or TH 2313.....	3		
Electives.....	3		
<b>Total</b>	<b>33</b>	<b>Total</b>	<b>34</b>

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Family and Consumer Sciences**  
**(with teacher certification)**  
**(Minimum required: 129 semester hours)**

General Requirements:

1. In addition to general education core curriculum and departmental core requirements, the Family and Consumer Sciences major pursuing teacher certification in Family and Consumer Sciences is required to take from 6 to 12 semester hours in each of the following areas: nutrition and foods, family and child development, fashion merchandising, interior design, consumer science, and occupational Family and Consumer Sciences.
2. Students must demonstrate competency in basic clothing construction techniques.
3. Students participate in student teaching for pre-professional experience.
4. No minor is required.
5. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 129 hours required for the degree will fulfill the language requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>
FM 1332 .....	3
FCS 1341 .....	3
FCD 1351 .....	3
NUTR 1360 .....	3
ENG 1310, 1320 .....	6
US 1100 .....	1
HIST 1310, 1320.....	6
MATH 1315 or 1319 .....	3
PFW two courses .....	2
Social Science Component.....	3
<b>Total</b>	<b>33</b>

<b>Junior Year</b>	<b>Hours</b>
FCD 2351, 3355.....	6
FCS 3341, 3391, 3394 .....	9
NUTR 2462, 3360.....	7
NUTR 2360 or 3362 .....	3
ID 3329.....	3
ART, DAN, MU, or TH 2313.....	3
CI 3310 .....	3
<b>Total</b>	<b>34</b>

<b>Sophomore Year</b>	<b>Hours</b>
FCS 1347 .....	3
ID 1321 .....	3
FM 2331 or 2334.....	3
CHEM 1310, 1430 or BIO 1320, 1421 .....	7
COMM 1310.....	3
ENG Literature.....	3
PHIL 1305.....	3
POSI 2310, 2320 .....	6
<b>Total</b>	<b>31</b>

<b>Senior Year</b>	<b>Hours</b>
FCS 4100, 4301, 4302V, 4347, 4681 .....	16
ASD 4311.....	3
AG 4343.....	3
H ED 1310 or 3301 .....	3
CI 4332.....	3
RDG 3323 .....	3
<b>Total</b>	<b>31</b>

**Bachelor of Science in Family and Consumer Sciences**  
**Major in**  
**Family and Child Development**  
**(Minimum required: 128 semester hours)**

General Requirements:

1. In addition to general education core curriculum and Family and Consumer Sciences core requirements, the Family and Child Development major is required to take specialized courses including infant and toddler development, child development, family life education, creative activities for children, and administration of programs for young children.
2. No minor is required; however, Family and Child Development majors may add a minor relevant to their career interests, such as, Social Work, Psychology, or Early Childhood Intervention.
3. MATH 1316 is not accepted as a prerequisite for courses in some minors.
4. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 128 hours required for the degree will fulfill the language requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>
FCD 1351 .....	3
COMM 1310.....	3
ENG 1310, 1320 .....	6
US 1100 .....	1
HIST 1310, 1320.....	6
MATH 1315 or 1316 or 1319 .....	3
Natural Science Component.....	3-4
PFW two courses .....	2
PHIL 1305. ....	3
<b>Total</b>	<b>30-31</b>
<b>Junior Year</b>	<b>Hours</b>
FCD 3351, 3353, 3355, 3358, 3394 .....	15
NUTR 3362 .....	3
FCS 1341 or 1347 or 3341; or FM 2331; or ID 3329 .....	3
Department elective, advanced .....	3
ART, DAN, MU, or TH 2313 .....	3
SOWK 2375 or 4315 .....	3
Elective .....	3
<b>Total</b>	<b>33</b>

<b>Sophomore Year</b>	<b>Hours</b>
FCD 2351, 2353, 2357 .....	9
Department elective .....	3
ENG Literature.....	3
POSI 2310, 2320 .....	6
Natural Science Component.....	4
Social Science Component.....	3
Elective .....	3
<b>Total</b>	<b>31</b>
<b>Senior Year</b>	<b>Hours</b>
FCD 3359, 4100, 4301, 4351, 4352, 4355 .....	16
FCD 4356 or 4303.....	3
FCD 3350 or 3354 or 3356 .....	3
FCS 4347 .....	3
SPED 2360.....	3
Electives .....	6
<b>Total</b>	<b>34</b>

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Family and Child Development**  
**(with teacher certification)**  
**Minimum required: 131 semester hours**

General Requirements:

1. In addition to general education core curriculum and departmental core requirements, the Family and Consumer Sciences major pursuing teacher certification in Family and Child Development is required to take specialized courses including infant and toddler development, child development, family life education, creative activities for children, and administration of programs for young children.
2. Students participate in student teaching for pre-professional experience.
3. No minor is required.
4. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 132 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>
FCD 1351 .....	3
COMM 1310.....	3
ENG 1310, 1320 .....	6
US 1100 .....	1
HIST 1310, 1320.....	6
MATH 1315 or 1316 or 1319 .....	3
Natural Science Component.....	3-4
PFW two courses .....	2
PHIL 1305. ....	3
<b>Total</b>	<b>30-31</b>

<b>Junior Year</b>	<b>Hours</b>
CI 3310 .....	3
FCD 3351, 3353, 3354, 3355, 3358, 3359, 339421	3
FCS 3341 .....	3
NUTR 3362 .....	3
SOWK 4315.....	3
<b>Total</b>	<b>33</b>

<b>Sophomore Year</b>	<b>Hours</b>
FCD 2351, 2353, 2357 .....	9
FCS 1341 .....	3
ENG Literature.....	3
POSI 2310, 2320 .....	6
Natural Science Component.....	4
Social Science Component.....	3
ART, DAN, MU, or TH 2313 .....	3
<b>Total</b>	<b>31</b>

<b>Senior Year</b>	<b>Hours</b>
AG 4343 .....	3
CI 4332.....	3
FCD 4100, 4351, 4352, 4355 .....	10
FCS 4301, 4302V, 4347, 4681 .....	15
RDG 3323 .....	3
ASD 4311.....	3
<b>Total</b>	<b>37</b>

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Fashion Merchandising**  
**(with Minor in Business Administration)**  
**(Minimum required: 128 semester hours)**

General Requirements:

1. In addition to general education core curriculum and Family and Consumer Sciences core requirements, the Fashion Merchandising major is required to take specialized courses in Fashion Merchandising including culture and consumer behavior, textiles, textile product analysis, fashion buying principles, fashion merchandising, fashion history, fashion merchandising administration, fashion economics, and fashion promotional strategies.
2. Students participate in an internship in a related area.
3. A minor in Business Administration is required of all Fashion Merchandising majors.
4. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 128 hours required for the degree will fulfill the language requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>
FM 1330, 1332, 2331.....	9
COMM 1310.....	3
ENG 1310, 1320.....	6
US 1100.....	1
HIST 1310, 1320.....	6
MATH 1315 or 1319.....	3
PHIL 1305.....	3
PFW two courses.....	2
<b>Total</b>	<b>33</b>

<b>Junior Year</b>	<b>Hours</b>
FM 3330, 3331, 3332, 3334.....	12
Social Science Component.....	3
MC 3343 or 3367.....	3
ENG Literature.....	3
Department electives.....	6
Electives.....	6
<b>Total</b>	<b>33</b>

<b>Sophomore Year</b>	<b>Hours</b>
FM 2330, 2334.....	6
ECO 2301.....	3
ACC 2301.....	3
Natural Science Component.....	7-8
POSI 2310, 2320.....	6
ART, DAN, MU or TH 2313.....	3
Elective.....	3
<b>Total</b>	<b>31-32</b>

<b>Senior Year</b>	<b>Hours</b>
FM 4100, 4301, 4331, 4337, 4338, 4339.....	16
FCS 4347.....	3
Business-Select four from: BLAW 2361; CIS 3317; FIN 3325; MGT 3303; or MKT 3343 .....	12
<b>Total</b>	<b>31</b>



**Bachelor of Science in Family and Consumer Sciences**  
**Major in Interior Design**  
**(Minimum required: 128semester hours)**

General Requirements:

1. In addition to general education and Family and Consumer Sciences core requirements, the Interior Design major is required to take specialized courses in interior design including history of furnishings and architecture, residential commercial interior design, research and programming, professional practices, and portfolio development. Visual communication courses, such as drawing, rendering and CADD, are taken in Art and Technology.
2. Students participate in an internship in a related area.
3. A portfolio review for all Interior Design majors is conducted by the Interior Design faculty immediately upon completion of all ID 3322 course work. The purpose of the review process is to ensure that the most qualified students, evidenced by adequate skill and knowledge levels, will advance in the program.
4. Interior Design students must pass all required Interior Design, Art, and Technology classes with a grade of "C" or higher. Any student making a grade of "D" or lower in ID 1321, 2322, 2323, 3322, 3323, TECH 1413, and ARTC 2305 may not proceed to the next level course until a grade of "C" or higher is achieved.
5. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 128 hours required for the degree will fulfill the language requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>
ID 1321, 2321, 2322, 2323, 2329.....	15
ARTF 1302, ARTC 2305.....	6
TECH 1413, 3313.....	7
ENG 1310.....	3
US 1100.....	1
PFW one course.....	1
<b>Total</b>	<b>33</b>

<b>Junior Year</b>	<b>Hours</b>
ID 3324, 4323.....	6
ARTH 2301, 2302.....	6
ART, DAN, MU, or TH 2313.....	3
HIST 1310, 1320.....	6
Natural Science Component.....	7-8
PFW one course.....	1
COMM 1310.....	3
<b>Total</b>	<b>32-33</b>

<b>Sophomore Year</b>	<b>Hours</b>
ID 3321, 3322, 3323, 3325, 3326.....	15
TECH 1320, 4310, 4313.....	9
ARTF 1303.....	3
ENG 1320.....	3
MATH 1315 or 1319.....	3
<b>Total</b>	<b>33</b>

<b>Senior Year</b>	<b>Hours</b>
ID 4100, 4220, 4301, 4324.....	9
FCS 4347.....	3
Department elective, non-major.....	3
PHIL 1305.....	3
POSI 2310, 2320.....	6
Social Science Component.....	3
ENG Literature.....	3
<b>Total</b>	<b>30</b>

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Nutrition and Foods**  
**(Minimum required: 128 semester hours)**

## General Requirements:

1. In addition to general education and Family and Consumer Sciences core requirements, the Nutrition and Foods major takes courses in chemistry, administrative science, agriculture, biology, and social sciences. Specialized courses in food science, management, assessment, food systems, wellness and fitness, medical nutrition therapy, advanced nutrition, and food service management are included.
2. Students participate in an undergraduate internship.
3. No minor is required; however, Nutrition and Foods majors may choose to add a minor in Business Administration, Chemistry or Biology.
4. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 128 hours required for the degree will fulfill the language requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>	<b>Sophomore Year</b>	<b>Hours</b>
NUTR 1360, 2360.....	6	NUTR 2361, 2462.....	7
CHEM 1341, 1141, 1342, 1142 .....	8	BIO 2430.....	4
BIO 1320 .....	3	PSY 1300 or SOCI 1310.....	3
ENG 1310, 1320 .....	6	COMM 1310.....	3
US 1100 .....	1	ENG Literature .....	3
HIST 1310, 1320.....	6	PHIL 1305.....	3
MATH 1315 or 1319 .....	3	PFW one course .....	1
PFW one course .....	1	POSI 2310, 2320 .....	6
		Elective .....	3
<b>Total</b>	<b>34</b>	<b>Total</b>	<b>33</b>
<b>Junior Year</b>	<b>Hours</b>	<b>Senior Year</b>	<b>Hours</b>
NUTR 3360, 3361, 3363, 3365.....	12	NUTR 4100, 4301, 4360, 4361 .....	10
BIO 2440 .....	4	FCS 3391, 4303, 4347.....	9
CHEM 2130, 2330, 2450 .....	8	AG 3319.....	3
ACC 2361 .....	3	ENG 3303 .....	3
ART, DAN, MU, TH 2313 .....	3	MGT 3303.....	3
		Elective .....	3
<b>Total</b>	<b>30</b>	<b>Total</b>	<b>31</b>

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Nutrition and Foods**  
**(with teacher certification)**  
**Minimum required: 134 semester hours**

General Requirements:

1. In addition to general education and department core requirements, the family and Consumer Sciences major pursuing teacher certification in Nutrition and Foods major takes courses in food science, wellness and fitness, life cycle nutrition, food systems, assessment, hospitality, and food service management.
2. Students participate in student teaching for pre-professional experience.
3. No minor is required.
4. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 132 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman Year</b>	<b>Hours</b>	<b>Sophomore Year</b>	<b>Hours</b>
NUTR 1360 .....	3	NUTR 2360, 2361, 2462 .....	10
FCS 1341, 1347 .....	6	BIO 2430, 2440 .....	8
BIO 1320, 1421 .....	7	PSY 1300 or SOCI 1310 .....	3
ENG 1310, 1320 .....	6	ENG Literature .....	3
COMM 1310 .....	3	PHIL 1305 .....	3
US 1100 .....	1	PFW one course .....	1
HIST 1310, 1320 .....	6	POSI 2310, 2320 .....	6
MATH 1315 or 1319 .....	3		
PFW one course .....	1		
<b>Total</b>	<b>36</b>	<b>Total</b>	<b>34</b>
<b>Junior Year</b>	<b>Hours</b>	<b>Senior Year</b>	<b>Hours</b>
NUTR 3360, 3361, 3363, 3365 .....	12	NUTR 4100, 4301 .....	4
NUTR (Hospitality) .....	3	FCS 3391, 4301, 4302V, 4681 .....	15
FCS 4347 .....	3	FM 4338 .....	3
FCD 3394 .....	3	AG 4343 .....	3
CI 3310 .....	3	CI 4332 .....	3
ART, DAN, MU, TH 2313 .....	3	RDG 3323 .....	3
ACC 2301 .....	3	ASD 4311 .....	3
<b>Total</b>	<b>30</b>	<b>Total</b>	<b>34</b>

### Minor in Consumer Science

A minor in Consumer Science requires 18 hours, which includes FCS 1341, 3341, 3342, 4341, and 6 hours of FCD, FCS, ID, FM, or NUTR electives.

### Minor in Early Childhood Intervention

A minor in Early Childhood Intervention requires 21 hours, which includes FCD 2357, 3356, 4301, and 12 hours selected from CDIS 1331; FCD 2351, 2353, 3351, 4351, 4352, 4355; HIM 2360; NUTR 2360, 3365; PSY 2315, 3315; SOCI 3327, 3337; SOWK 1350, 2375, 4315; or SPED 2360.

## Minor in Family and Child Development

A minor in Family and Child Development requires 21 hours, which includes FCD 1351, 2353, 3355, and 12 additional hours of FCD, 9 of which must be advanced, selected from: FCD 2351, 2357, 3350, 3351, 3353, 3354, 3356, 3358, 3394, 4101, 4301, 4351, 4352, 4355, 4356, 4357 or FCS 4303.

## Minor in Family and Consumer Sciences

A minor in Family and Consumer Sciences requires 18 hours, which includes FCS 1341 or 3341; FCD 3355; FM 1332 or 2331 or 3331; NUTR 3362; ID 3329; and 3 hours of electives. 9 hours must be advanced.

## Minor in Fashion Merchandising

A minor in Fashion Merchandising requires 18 hours, which includes FM 1330 and 15 hours from: FM 1332, 2330, 2331, 2334, 3330, 3331, 3332, 3334, 4331, 4337, 4338, 4339, 4340, or FCS 4302C.

## Courses in Family and Child Development (FCD)

**1351 Lifespan Development. (3-0)** Developmental principles underlying behavior as experienced in physical, intellectual, emotional and social changes across the lifespan. Emphasis will be on adult development.

**2351 Child Development. (3-1)** The development of the total child from conception through adolescence. Observation in Child Development Center.

**2353 Principles of Guidance. (2-2)** Theory and practice related to child guidance. Participation in Child Development Center required. Prerequisite: FCD 2351 or approval of instructor.

**2357 Infants and Toddlers. (2-2)** The study of infants and toddlers in home and group settings; implementation of learning strategies based on developmental principles. Directed participation in the Child Development Center. Prerequisite: FCD 2353 or approval of instructor.

**3350 Families & Sexuality. (3-0)** A study of sexuality development as it relates to current critical issues for families and society.

**3351 Creative Experiences: Social Studies and the Arts. (3-1)** The application of methods, materials, and planning in the development of curriculum for the preschool child through language, music, literature, art, dramatic play and social studies. Participation in Child Development Center required. Prerequisite: FCD 2353 or approval of instructor.

**3352 Development of Programs for Young Children. (3-0)** The study of group care programs for children including development, implementation and assessment of developmentally appropriate programs. Various theoretical and philosophical components will be included.

(WI) **3353 Family Life Education. (3-0)** The study of relationships between core knowledge, educational practice, and audience characteristics in family life education. Translation of research-based knowledge about family life into education materials and presentations suitable for families. Opportunity to develop, implement, and evaluate a family life education presentation.

**3354 Creative Experiences: Science and Math. (3-1)** The application of methods, materials and planning in the development of curriculum for the preschool child through math, science, nutrition and outdoor play. Participation in Child Development Center required. Prerequisite: FCD 2353 or approval of instructor.

**3355 Family Relationships. (3-0)** This course will cover a broad range of research-based topics including the universality and uniqueness of American families, the establishment and maintenance of intimate relationships, family formation and parenthood, and various other aspects related to individual and family relationships over time.

**3356 Introduction to Early Childhood Intervention. (3-0)** This course provides an interdisciplinary orientation to the professional discipline of early childhood intervention and the early intervention specialist.

**3358 Practicum in Child Development. (1-4)** Structured practical experience in child development center. Prerequisites: FCD 2353, 2357, and 3351 or approval of instructor.

**3359 Family Diversity. (3-0)** This course will explore both the internal dynamics and external environments of nontraditional family forms – including prevalence, social conditions leading to and sustaining their existence, common stereotypes, and recent research.

**3394 Problems in Adolescence. (3-0)** A study of adolescence as it relates to current critical issues for families and society. The course will focus on specific techniques to analyze and assist the development of adolescents. Emphasis will be on theory and research as it explains the development process.

**4100 Professional Preparations for Family and Child Development. (1-0)** Focus on gaining skills and knowledge appropriate to careers in family and child development. Includes career opportunities, interview process, and workplace issues such as professional ethics. Required for senior FCD majors.

(WI) **4301 Internship in Family and Child Development. (0-6)** Internship program in Family and Child Development – related professions, services, industry, or business. Must meet college, department, and program requirements.

(WI) **4351 Cultural Diversity of Families. (3-0)** Study of family diversity through selected family science research methods and topics including family structure and function, family life patterns, multicultural groups, agents of enculturation, and family life education. Prerequisite: FCD 3355 or consent of instructor.

**4352 Administration of Programs for Children. (3-0)** Addresses the history, philosophy, and ethics of programs for young children. Emphasis on responsibilities of the child care administrator in relation to staff, budgets, facility laws, and standards of agency management. Prerequisite: FCD 2353 or approval of instructor.

**4353 Hospitalized Child: Introduction to Child Life. (3-0)** This course introduces students to theoretical and practical methods of working with children and their families in health care settings.

**4355 Family Interaction. (3-0)** Study and comparison of family interaction and process across various family structures and transitions. Investigation of interaction strategies to enhance successful family function across various family structures and transitions. Prerequisite: FCD 3355 or approval of instructor.

**4356 Program Administration. (3-0)** A study of the implementation of family and child development programs. Emphasis will be on program development, personnel and supervisory issues, financial management, grant writing, public policy, and legal and professional standards. Prerequisites: FCD 2353 and 3355 or approval of instructor.

**4357 Comparative Studies in Child Development. (3-0)** The study of early care and education systems including goals, funding and regulation through participation in international exchange programs. The role of government policies in the development and implementation of systems will be addressed.

(WI) **4391 Independent Study in Family and Child Development. (0-6)** Independent reading and/or research on a specific topic related to student's primary area of interest. Work may consist of research, reviews and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor.

## Courses in Family and Consumer Sciences (FCS)

Many of the subject-matter courses in Family and Consumer Sciences are open to non-majors as electives.

**1341 (ECON 1303) Consumers in the Marketplace. (3-0)** An introduction to consumerism. Topics covered will include: the consumer's role in the economy; consumer responses to the pressures of the economy (credit, inflation, and savings); and an analysis of the largest consumer expenditures (housing, food, and transportation).

**1347 Family and Personal Resource Management. (3-0)** An analysis of family and personal management processes including resource identification and factors that impact on management and decision making. Contemporary issues in the field will be considered: changing family roles, one-parent families, aging, the handicapped, low income families, the one-person family, and alternate lifestyles.

**3341 Family Finance. (3-0)** The study of family financial management during different stages of the family life cycle and at various income levels. Topics considered will include the use of budgeting and record keeping to achieve family economic goals; the role of credit and the need for financial counseling; economic risks and available protection; and alternative forms of saving and investments. Prerequisite: FCS 1341 or consent of instructor.

**3342 Consumer Law. (3-0)** An in-depth review of the relationship between the consumer and federal and state law and policy. Includes study of both consumer protection legislation and laws which define the consumer's rights and responsibilities. Will consider the operation of government agencies and the courts in various consumer areas as well as avenues of redress on the part of the consumer. Prerequisite: FCS 1341.

(WI) **3390 Family and Consumer Sciences: Observation and Methods. (3-0)** Introduction to characteristics and philosophy of Family and Consumer Sciences. Development of curriculum through the identification of objectives, content, learning experiences and materials, and evaluation techniques. Emphasis on characteristics, problems, and special needs of various socioeconomic, ethnic, handicapped groups. Observation in school and community programs is required. Prerequisite: CI 3325.

**3391 Communication Skills and Techniques. (2-2)** Analysis of factors that influence program planning and application of program development to planning for groups or individuals with differing purposes and organizational structure. Planning, developing, and implementing the use of alternative media and methods: the use of audio-visuals; demonstration techniques; radio; and television. Special emphasis on methods suitable for use with adults.

(WI) **3392 Fundamentals of Occupational Family and Consumer Sciences. (3-0)** Study of the occupational programs for Home Economics: coordinated vocational academic education; vocational education for the handicapped; cooperative education; pre-employment laboratory education including curriculum development.

(WI) **3393 Occupational Experiences in Family and Consumer Sciences. (1-4)** Classroom study and field experiences in occupational areas of Home Economics: child care; clothing, apparel, and textiles; food production, management, and services; home furnishings; institutional and home management. Prerequisite: FCS 3392.

**4100 Professional Preparations in Family and Consumer Sciences II. (1-0)** Family and Consumer Sciences in the professional world and continuing education. Opportunities, interviews, and professional ethics. Development of credentials and portfolios. Required of all seniors majoring in Family and Consumer Sciences.

**4101 Special Problems in Family and Consumer Sciences. (1-0)** A study of selected areas of Family and Consumer Sciences. Repeatable for credit with different emphasis.

(WI) **4301 Internship in Family and Consumer Sciences. (0-6)** Internship program in Family and Consumer Science-related professions, services, business, or industry. Must meet college, department and program requirements. Repeatable for credit with different emphasis. (Capstone Course)

**4302 Topics in Family and Consumer Sciences. (3-0)** In-depth study of a current topic or issue of interest to Family and Consumer Sciences professionals in work with individuals and families. Individual topics are listed in the class schedule as 4302 with appropriate suffixes.

(WI) **4302C Regional Markets**

**4302V Occupational Family and Consumer Sciences II: Industry Related Content**

**4302Y Digital Design Studio for Interior Design**

**4302Z Functional Foods and Nutraceuticals**

(WI) **4303 Research Procedures in Family & Consumer Sciences. (3-0)** The study and implementation of research procedures for use with family and consumer sciences programs. Includes instrument selection, recruitment and testing of subjects, coding, analysis and dissemination of data. Will include field based experiences using appropriate research procedures.

**4340 International Study in Family & Consumer Sciences. (3-0)** Study of Family and Consumer Sciences topics in international settings. Emphasis will be placed on cultural awareness and its application within FCS professions. Repeatable for credit with different emphasis.

**4341 Counseling for Family Practitioners. (3-0)** Family financial issues are studied with an emphasis on the role of the financial counselor. Designed to increase awareness and knowledge of the characteristics of persons in serious financial difficulties, complexity of factors affecting such situations, desirable relationships between the helper and helped, awareness of community resources. Prerequisites: FCS 1341, 3341.

(WI) **4347 Family Policy. (3-0)** An examination of policy-making and the significance of national, state and local policies that affect families. Students will analyze social policies, including government programs and legislation, and discuss how to influence change in policies. Use of the Internet and computer software programs such as Word, PowerPoint, and others required.

(WI) **4391 Independent Study in Family and Consumer Sciences. (0-6)** Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. Course may be repeated once for credit with approval of instructor.

**4681 Family and Consumer Sciences: Principles and Process. (0-6)** Observation and participation in the total family and consumer science program. Requires a full day in the Teaching Center for ten weeks (five day week except for holidays in public school system). Prerequisites: FCS 3390 and completion of all required Family and Consumer Sciences courses.

### **Courses in Fashion Merchandising (FM)**

**1330 (HECO 2311) Introduction to Fashion Merchandising. (3-0)** Survey of the fashion industry including an overview of the development, production and distribution of fashion goods and services.

**1332 (HECO 1320) Textiles. (3-0)** A consumer-oriented study of the relationship of fibers, fabrics, and textile product end-uses.

**2330 Fashion Promotional Strategies I. (3-0)** The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques used at the retail level. Prerequisite: FM 1330.

**2331 Culture & Consumer Behavior. (3-0)** The study of theories related to culture and appearance that influence fashion and fashion product consumption.

**2334 Textile Product Analysis. (3-0)** The study of textile product quality control issues important to manufacturers, retailers, and consumers. Emphasis is placed on evaluating quality based on appearance, cost, durability, and end-use of textile products. Prerequisites: FM 1330 and 1332.

**3330 Fashion Buying Principles I. (3-0)** Quantitative concepts used in merchandising fashion goods with an emphasis on profitability. Prerequisites: FM 1330, MATH 1315 or 1319 or approval of instructor.

**3331 Fashion History. (3-0)** Chronological study of Western fashion through the ages. Emphasis on social, economic, and political influences on fashion development.

**3332 Fashion Promotional Strategies II. (3-0)** The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques initiated by manufacturers and wholesalers of fashion products. Prerequisites: FM 1330 and 2330 or consent of instructor.

**3334 Fashion Merchandising Administration. (3-0)** The study of human resource management in the fashion industry including recruitment, development, assessment, and compensation. Prerequisite: FM 1330 or consent of instructor.

**4100 Professional Preparation for Fashion Merchandising. (1-0)** Developing skills and attitudes appropriate in the professional world of fashion merchandising. Topics include goal setting, career opportunities, job searches, ethics, and continuing education. Senior standing required.

**4101 Special Problems in Fashion Merchandising. (0-2)** A study of selected areas of Fashion Merchandising. Repeatable for credit with different emphasis.

(WI) **4301 Internship in Fashion Merchandising. (0-6)** Internship program in fashion merchandising-related professions focused on production, distribution, or retailing of fashion goods, or auxiliary services. Prerequisite: Must meet college, department, and program requirements. (Capstone Course)

**4331 Fashion Buying Principles II. (3-0)** A study of the roles and responsibilities of fashion merchandise buyers. Emphasis on retail buying functions, including developing merchandise plans, selecting products, negotiating terms, and monitoring performance. Prerequisites: FM 1330, 3330, MATH 1315 or 1319, or consent of instructor.

(WI) **4337 Fashion Merchandising. (3-0)** The study of managerial decisions in fashion retailing with an emphasis on operational issues. Prerequisites: FM 1330, 2330, 3330, and 3334, or consent of instructor.

**4338 Enterprise Development. (3-0)** Principles and procedures used in creating successful enterprises to meet consumer demand, including consumer research, logistical issues, and strategic planning. Examines various product and service offerings in traditional and non-traditional outlets. Prerequisite: Senior standing or consent of instructor.

(WI) **4339 Fashion Economics. (3-0)** Economic perspective of textile products, production and global sourcing with emphasis on U.S. fashion industries. Prerequisites: FM 1330, 1332, and ECON 2314 or consent of instructor.

(WI) **4391 Independent Study in Fashion Merchandising. (0-6)** Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature or other appropriate independent work. May be repeated once for credit with approval of instructor. Prerequisites: FM 1330 and consent of instructor.

## Courses in Interior Design (ID)

**1321 Introduction to Interior Design. (1-4)** Elements and principles of design as applied to the individual and his/her environment.

**2321 History of Interiors. (3-0)** Survey of historical styles of furnishings, architecture, and interiors from the Egyptian period to the Industrial Revolution.

**2322 Basic Interior Design. (3-0)** Introductory lecture course for interior design majors, analyzing the elements and principles of design as applied to interior environments. Fundamentals of professional requirements, human factors, space planning, properties and applications of interior materials and systems, and components of style. Prerequisite: ID 1321.

**2323 Design Development. (0-6)** Introduction to the process of design development and planning of interior space with emphasis on graphic visualization as a creative process and design tool. Prerequisites: ID 1321; TECH 1413.

**2329 Housing and the Environment. (3-0)** Introduction to environmental factors related to human habitation. Investigates housing from global, ecological, social, physical, and spatial perspectives. Includes principles of sustainable resources, energy management, structural and mechanical systems, and interior materials and finishes. For Interior Design majors only or consent of instructor.

(WI) **3321 Contemporary Interiors and Architecture. (3-0)** A survey of contemporary styles of furnishings, architecture, and interiors from the 19th century to the present. Prerequisite: ID 2321.



**3322 Studio I: Residential Interior Design. (0-6)** Beginning studio experience of various dimensions, purposes, and characters relative to the small and large residential space. Prerequisites: ID 2321, 2322, 2323, 2329; TECH 3313; ARTC 2305. Co-requisite: ID 3325 or 3326.

**3323 Studio II: Commercial Interior Design. (0-6)** Analyzing, planning and furnishing small to moderate commercial and other non-residential spaces. Prerequisites: ID 3321, 3322. Co-requisites: ID 3325, 3326; ARTF 1303.

(WI) **3324 Professional Practices. (3-0)** A study of the business principles, ethics, and procedures for the interior designer. Prerequisite: ID 2322.

**3325 Interior Lighting Design. (3-0)** The study of natural and manufactured light sources relative to the interior environment. Emphasis is on light science and technology and the effects on health, behavior, color and form. Includes issues of aesthetics, energy conservation, codes, evaluation, and specifications. Prerequisites: ID 2322 and TECH 1413, or consent of instructor.

**3326 Comprehensive Interior Design. (3-0)** Advanced study of materials, components, systems, codes and other factors that relate to public health, safety, and welfare in interior environments. Lecture and application of resources, materials and design technologies. Addresses specifying, scheduling, budgeting, and resource conservation. Prerequisites: ID 2322.

**3329 Housing, Interiors, and Furnishings. (3-0)** An application of the basic design principles in planning, designing, and furnishing interiors for contemporary living to reflect function, economy, beauty, and individuality for varying income levels. For non-Interior Design majors only.

**4100 Professional Preparations for Interior Design. (1-0)** Interior design in the professional world. Discussion of opportunities, interviewing, and ethics in the workplace. Prerequisite: ID 3323, 3324.

**4101 Special Problems in Interior Design. (0-2)** A study of selected areas of Interior Design.

**4220 Portfolio Development. (0-4)** Focuses on portfolio development in preparation for the workplace. Addresses principles of visual and verbal communication, portfolio content and presentation techniques. Requires upgrading and archiving of studio projects, and investigating alternative presentation methods. Prerequisite: ID 4323.

(WI) **4301 Internship in Interior Design. (0-6)** Internship experience in the Interior Design profession. Must meet college, department, and program requirements. (Capstone Course) Prerequisites: ID 3323, 3324, 3325, 3326.

**4323 Studio III: Research/Environmental Design. (0-6)** Specialized research in and application of factors impacting the interior environment. Includes design programming, advanced space planning, finish specifying, furnishings design and detailing, and presentation strategies through creative problem-solving. Prerequisites: ID 3323, 3325, 3326; TECH 1320; and TECH 2313 or 4310.

**4324 Studio IV: Contemporary Design Issues. (0-6)** Specialized research in interior design to include design issues such as barrier free environments, medical facilities, historic preservation/adaptive reuse, international interiors, energy issues, sustainable design and design for special needs. Prerequisites: ID 4323; TECH 4313.

(WI) **4391 Independent Study in Interior Design. (0-6)** Independent reading and/or research on a specific topic related to student's primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor.

## Courses in Nutrition and Foods (NUTR)

**1360 Food Systems. (2-2)** Nutrition, food science, and management principles in planning, procuring, preparing, preserving, evaluating and serving of food to fulfill dietary habits or requirements of individuals and diverse ethnic groups. Includes federal legislation, environmental issues and culinary principles. Apply principles and theories in small groups in laboratory experience.

**2360 (BIOL 1322) Principles of Nutrition. (3-0)** A study of the principles of human nutrition with emphasis on nutrient function, requirements, and sources. Prerequisite: Three semester hours of science.

**2361 Basic Nutritional Care. (3-0)** Principles and techniques of assessing nutritional status, interviewing and nutrition counseling, developing individualized treatment plans and educational tools, and accessing community nutrition resources. Practical application through assignments and in-class experiences. Prerequisites: NUTR 1360 and 2360.

**2462 Food Science. (3-2)** Scientific principles underlying the selection, preparation, preservation, and storage of food. Prerequisite: Three semester hours of science.

**3360 Quantity Food Production Management. (2-3)** Principles and techniques of planning, procurement, production, evaluation, service, and research in Food Service Systems. Prerequisite: NUTR 1360 or consent of instructor.

**3361 Food Service Systems Management. (2-2)** Principles, policies, and procedures relating to systems design, decision hierarchy, organization structure, personnel, and purchase of food and equipment. Prerequisite: NUTR 1360 or consent of instructor.

**3362 Nutrition and Health. (3-0)** For non-science majors. Involves the study of the nutrients and their function in promoting health throughout the life span. Includes standards for consumer selection of a proper diet and analysis of nutrition-related health problems.

**3363 Nutrition for Wellness and Fitness. (3-0)** Study of the nutritional requirements for attainment and maintenance of health and disease prevention, sports and fitness. Discussion of appropriate use of dietary supplements and popular diets. Explore causes and treatment of eating disorders, overweight and obesity. Prerequisites: NUTR 2360, 2361, and BIO 2430, or permission of instructor.

**3364 Sports Nutrition. (3-0)** An advanced course focusing on the physiological and biochemical importance of nutrition to physical performance, health, and fitness. Special emphasis will be placed on the investigation of ergogenic aids.

(WI) **3365 Nutrition in the Life Span. (3-0)** An in-depth study of the normal growth, development, and nutritional requirements associated with pre-pregnancy, pregnancy, infancy, childhood, adolescence, and the elderly. Prerequisites: NUTR 2360 or 3362; BIO 2430.

**4100 Professional Preparations for Nutrition and Foods. (1-0)** Preparation of nutrition and foods majors for the professional world and continuing education. Exploration of career opportunities; discussion of professional ethics. Development of credentials, portfolios and skills development for job interviews.

**4101 Special Problems in Nutrition and Foods. (0-2)** Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor.

(WI) **4301 Internship in Nutrition and Foods. (0-6)** Internship program in Nutrition and Foods-related professions, services, businesses, or industry. Must meet school, department and program requirements. Nutrition and Foods internship does not qualify students for dietetic registration by The American Dietetic Association. (Capstone Course)

(WI) **4360 Medical Nutrition Therapy. (3-0)** Study of the physiological and biochemical abnormalities of certain disease states of the human body's systems with emphasis on diet modification as a therapeutic measure. Prerequisites: NUTR 2360, 2361, 3365 and BIO 2430 or consent of instructor.

(WI) **4361 Advanced Nutrition. (3-0)** A study of the biochemical and physiological foundations of nutrition. Information pertaining to cytology, biochemical structure of nutrients, energy transformations, nutrient-drug interactions, and the anatomy, physiology, and nutrient metabolism of major organ systems is covered. Prerequisites: NUTR 2360 and 3365, CHEM 2450.

(WI) **4391 Independent Study in Nutrition and Foods. (0-6)** Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor.

## Department of Military Science

### Army Reserve Officer Training Corps

Phone: (512) 245-3232  
Fax: (512) 245-3264

Office: Frio Building 104  
Web: <http://www.txstate.edu/armyrotc/>

*Chair and Professor-Lieutenant Colonel Deeds. Instructors-Major Berkenhoff, Captain Atkisson, Captain Sanchez, Master Sergeant San Jose, Sergeant First Class Gonzalez.*

#### **Minor Offered**

- Military Science

The Army Reserve Officer Training Corps (AROTC) Program at Texas State is designed to develop the professional skills vital to Army officers. The purpose of the program is to qualify students for a commission in the U.S. Army, U.S. Army Reserve, or Army National Guard.

There are two routes available to the student who wishes to obtain a commission through the AROTC. Entering students may enroll in the four-year program and students with at least two academic years remaining in college may apply for the two-year program.

The four-year program has two distinct parts - the basic course and the advanced course. Entry into the four-year program requires no formal application; however, an interview is advisable because the student may be eligible for advanced placement. Registration is accomplished at the same time and in the same manner as for other college courses. During the freshman and sophomore years, students enroll in the basic course. Enrollment does not confer any military status or commitment upon the cadet. Successful completion of, or constructive credit for, the basic course is necessary before progressing to the advanced course.

The two-year program, known as the advanced course, is the last two years of the four-year program. This allows the student more flexibility in meeting qualification criteria. The basic requirement is that the student has two academic years remaining at Texas State. Coordination should be made with the Professor of Military Science well in advance of anticipated enrollment in order to allow adequate time for application processing. A student may meet some prerequisites as a result of prior military training, ROTC training with any service, or successful completion of ROTC Basic Camp. An interview is advisable in order to determine if a student meets any of the above prerequisites.

Selection for the advanced course is based upon the meeting training prerequisites, and meeting medical standards. Students in the advanced course attend a paid, four-week advanced camp between their junior and senior years. The purpose of this four-week camp is to evaluate the cadets' performance in leadership positions while giving them practical field experience in a military environment.

Textbooks and materials for military science classes are furnished without cost. Members of the advanced course receive \$350-400 per month tax-free subsistence, up to \$3,150 per school year.

Some scholarship and non-scholarship advanced course cadets are eligible to participate in the Simultaneous Membership Program. This program allows a cadet to join the National Guard or Army Reserve and be paid as an E-5 for participation as an officer trainee. The Professor of Military Science should be consulted for additional information regarding this program.

Scholarships are available on a competitive basis to all cadets in AROTC, regardless of classification. These scholarships provide full tuition, laboratory and incidental fees, plus an allowance for books and necessary supplies. All scholarship cadets also receive the following subsistence per month: freshmen, \$250.00; sophomores, \$300.00; juniors, \$350.00; and seniors, \$400.00. Complete scholarship information may be obtained by contacting the department.

Opportunities to attend Airborne, Air Assault, and Northern Warfare Schools are available to cadets on a competitive basis.

According to current law, up to three semester hours of credit in a junior or senior ROTC course may be applied to the history requirement and up to three hours to the government requirement.

All Military Science cadets are required to attend a weekly 90 minute leadership laboratory. This gives the cadet an opportunity to practice leadership skills that are useful in civilian occupations as well as the military.

## Minor in Military Science

A minor in military science requires 23 hours, which includes MS 1211, 1212, 2211, 2212, (or placement credit given for completing basic training or the Leader's Training Course) 3311, 3312, 4311, 4312 and one course in Military History. To be eligible to take courses 3311, 3312, 4311, or 4312 (advanced course), students must sign a contract to enter the U.S. Army Reserves, Texas Army National Guard, or Active Duty Army. Students must be medically, morally, and physically qualified and receive permission from the department chair. MS 4312 also requires that cadets qualify for an U.S. Army officer commission by submitting to and passing a thorough background investigation to obtain a Secret Security clearance.

## Courses in Military Science (M S)

**1000 Leadership Laboratory. (0-1)** This course concentrates on practical leadership training. Must be taken concurrently with all other MS courses. Repeatable for credit with different emphasis.

**1211 Foundations of Officership. (2-0)** This course introduces the Army profession and the role of the commissioned officer. It focuses on leadership, ethics and military customs as well as practical skills like physical fitness and stress management. Students must enroll in MS 1000 concurrently.

**1212 Basic Leadership. (2-0)** This course is designed to broaden the introduction to the Army and the skills needed to be a successful Army officer. It focuses on leadership, communication and problem solving as well as nutrition and personal development. Students must enroll in MS 1000 concurrently.

**2211 Individual Leadership Studies. (2-0)** This course is designed to develop the student's self-confidence, leadership skills and problem solving abilities. It focuses on critical thinking, communication and conflict resolution skills.

**2212 Leadership and Teamwork. (2-0)** This course focuses on self-development guided by group processes. Experiential learning activities are designed to challenge current beliefs, knowledge and skills. This course also provides equivalent preparation for the ROTC Advanced Course and the Leaders Training Course. (WI)

**2313 American Military Studies and Battle Analysis. (3-0)** This course is designed to study Military History as it applies to the principles of war and current military doctrine. Students will analyze historical battles and lessons learned and apply them to the modern battlefield.

**3311 Leadership and Problem Solving I. (3-0)** This course is designed to enable a student without prior military experience to rapidly integrate into the cadet battalion and perform successfully. Key elements are introduction to physical fitness, how to plan and conduct training, basic tactical skills and military reasoning.

**3312 Leadership and Problem Solving II. (3-0)** This course is designed to enable a student without prior military experience to rapidly integrate into the cadet battalion and perform successfully. Key elements are introduction to physical fitness, how to plan and conduct training, basic tactical skills and military reasoning.

(WI) **4311 Leadership and Management. (3-0)** This course is designed to help cadets make informed career decisions and it continues their education in Army operation, training management, communications and leadership.

(WI) **4312 Officership. (3-0)** This course focuses on completing the transition from cadet to lieutenant. It includes a basic foundation of military law, skills and information on leadership and military science, application and demonstration of knowledge and mastery of military skills reasoning.

(WI) **4313 Independent Study in Military Science. (3-0)** This course will be designed to meet the needs of the individual student. It will be a directed and closely monitored program targeted at the students' weaknesses/interests. The course will primarily deal with topics pertinent to the military profession; such areas as leadership, management, ethics, law and their application. Course will require week/bi-weekly progress review with instructor.

## Occupational Education Program

Phone: (512) 245-2115  
Fax: (512) 245-3047

Office: Pedernales Building  
Web: <http://www.oced.txstate.edu/>

*Program Chair and Associate Professor-Springer. Professor-Pierson. Assistant Professor-Pevoto. Instructors-Harkins, Sullivan, Weathersby, Wilson.*

### Degree and Major Offered

- BAAS, major in Applied Arts and Sciences

### Degree Program

The BAAS is a nontraditional program designed to allow adult students to earn a degree with a major in an individualized academic area. In addition, it allows adults to assist in the choice of courses that would complement their career goals. The following are unique characteristics of the BAAS:

- Delivery of academic courses may be at nontraditional times, locations other than the parent campus, by video, and via the internet.
- Academic course work is individualized to meet student needs, but course work does not duplicate an existing traditional academic program.
- Work-life credit may be awarded for competencies gained through employment prior to entering the program.
- The major for the BAAS is Applied Arts and Sciences and for purposes of calculation of the major GPA, the first 18 hours taken in the Professional Development will be utilized.
- Numerous methods for obtainment of academic credit may be employed toward the BAAS degree, including correspondence, extension courses, and credit by examination. Students may use unlimited number of CLEPs as long as the examinations meet degree plan requirements and the student obtains at least 32 hours of resident courses with Texas State.
- Students choosing the BAAS program through the Occupational Education program must complete 32 hours of residence credit with Texas State in order to be awarded the degree.
- Students who have earned at least 60 semester hours at Texas State are eligible to graduate with honors if they have a minimum Texas State GPA of 3.40.
- Due to individualization and the unique nature of the program requirements, students should consult the Occupational Education website, or attend a special orientation and draft planning session.
- Occupational Education has specialized Career and Technology Education courses for those who desire to perform training/development in the work place or be certified in technical areas within the public school.
- Prior to graduation from Texas State, students must demonstrate computer literacy either through testing or through a course in computer science from a prior college or at Texas State.

**Bachelor of Applied Arts and Sciences**  
**Major in Applied Arts and Sciences**  
**(Minimum required: 128 semester hours)**

The BAAS degree plan includes the following four modules:

Occupational Emphasis Module (48 semester hours)

This module may be satisfied by credits earned from experiential learning (work/life experience, non-collegiate sponsored instruction, credit by examination), transfer work from other accredited institutions of higher learning, or a comprehensive cooperative education program. OCED 4350 (Occupational Assessment) is the required entry course for this module.

Core Curriculum (46 plus hours)

This module may be satisfied through a number of options including traditional course work from Texas State and transfer credit from accredited institutions of higher learning plus limited numbers of hours from nontraditional methods including correspondence, extension, and forms of testing including CLEPs. See the University College section of the catalog for core requirements.

Elective Module (9 plus hours)

Elective hours to complete the 128 hour degree are chosen with the advice of the student's degree advisor.

Professional Development Module (18 hours)

Professional development sequences are individualized to students' educational needs. Students will choose courses with the assistance of the degree advisor from at least three academic departments. This module of 18 hours constitutes the major for GPA calculation purposes.

Foreign Language (8 hours)

Students who have not had two years of the same foreign language in high school or who do not have one year of the same foreign language from an accredited college must take the two courses of same foreign language, which may include American sign language.

### **Career and Technology Education**

The Occupational Education Program offers teacher certification programs in the areas of trade and industrial education and marketing education. Students who choose one of the Career and Technology Education (CATE) certification sequences are prepared for employment in the public schools of Texas provided they satisfactorily complete all required courses and other Texas Education Agency criteria including two to five years of approved work experience and teaching on an emergency permit.

Prospective teachers must submit a statement of qualifications (SOQ) which can be downloaded from [www.oced.txstate.edu](http://www.oced.txstate.edu) in order to receive a deficiency plan, which identifies CATE required coursework.

Students who pursue the BAAS degree may use CATE teacher certification courses to satisfy the professional development and occupational emphasis sequences for that degree. Occupational Education approves teachers in the following areas:

**Trade and Industrial Education.** Trade and industrial education for secondary students includes any subject or program designed to develop manipulative skills, technical knowledge, and related information necessary for employment in any craft or skilled-trade occupation which directly functions in designing, producing, processing, fabricating, assembling, testing, maintaining, servicing, or repairing any product or commodity. Training is also available in service and certain semiprofessional occupations.

**Marketing Education.** Marketing Education is designed to prepare, maintain, and advance people in marketing occupations. The program of instruction is provided through high schools and adult education centers and involves a combination of the following: (1) classroom instruction in marketing or in any specialized marketing area; (2) practical and/or simulated job-oriented experiences; and (3) supervised on-the-job training.

### **Technological Focus**

Students holding a two-year technical associates degree or work experience in a technical area may wish to pursue the BAAS with a technological focus. These students may enroll in upper- and lower-division technological coursework in the Occupational Emphasis module and also additional upper-division technological courses in the Professional Development module of the degree plan. In addition, those students with technical work experience may apply for extra institutional credits, as do other students in the BAAS degree plans.

### **Courses in Career and Technology Education (CATE)**

**3301 Methods of Teaching Career and Technology Education Subjects. (3-0)** Introduction to fundamentals of teaching as applied to CATE subjects. Required for pre-employment laboratory teachers.

**3302 Development, Organization and Use of Instructional Material. (3-0)** The course provides the learner with opportunities to select, develop, and organize instructional materials related to the area in which the instructor provides or will provide instruction. Required for pre-employment laboratory teachers.

**3303 Aims and Objectives of Career and Technology Education. (3-0)** Basic principles involved in development and operation of CAT programs under state and federal laws. Required for pre-employment laboratory teachers.

**3304 Human Relations for Career and Technology Education Teachers. (3-0)** Combination of psychological and sociological factors which influence relationships of CATE teachers in their pursuit of professional duties. Required for pre-employment laboratory teachers.

**3305 Shop and Classroom Organization and Management. (3-0)** Organization of procedures to facilitate teaching: setting up roll-checking devices, issuing procedures for tools and materials, keeping material inventory, using assignment and progress charts, using student leadership in non-teaching class and laboratory routine, and keeping records. Required for pre-employment laboratory teachers.

**3306 Analysis and Course Making. (3-0)** Analysis made of occupations to obtain content for instructional information, jobs and operations studied to determine order and content of operation, job evaluation, and job safety. Each student will make a course of study for some particular occupational subject. Required for pre-employment laboratory teachers.

**3307 Selection, Placement, and Follow-up in Career and Technology Education. (3-0)** Selecting occupations suitable for young people to learn, placing students in suitable employment on part-time basis, coordinating their school duties with their work activities. Required for all part-time cooperative coordinators.

**3308 Problems in Cooperative Training. (3-0)** Organization and presentation of content material necessary in part-time cooperative programs, and direction of study of students engaged in such programs. Required for all part-time cooperative coordinators.



**3313 Special Topics in Career and Technology Education. (3-0)** Selected topics in CATE taught through study and research. Course can be offered as individual instruction or as an organized class. No prerequisites are required. May be repeated 3 times with different emphases for additional credit. For career advancement and application toward Bachelor of Applied Arts Sciences degree.

**3313A Special Needs**

**3313B Using Microcomputers**

**3313C Entrepreneurship**

**3313D Leadership and Professional Development**

**3313G Delivery, Design, and Management**

**3313H Work-based Instruction**

**3313I Profession of Teaching**

**3313J Technology in the Classroom**

**3313K Human Problems in the Workplace****3320 Effective Methods of Teaching and Training. (3-0)** This is an introductory/fundamental course for instructors in trade and industrial education seeking certification and technical trainers who are not seeking certification. It is designed to prepare these individuals to apply effective teaching principles and techniques, to prepare lesson plans, and manage classrooms. Practice teaching will be included.

**3321 Work-based Learning in Career and Technology Education. (3-0)** This course is intended for teacher coordinators of work-based programs in trade and industrial cooperative education. There is an emphasis on selection of occupations and appropriate training stations, student recruitment, instructional coordination in on-the-job educational experiences, state and local report preparation and required record keeping systems.

**3322 Teaching/Training as a Profession. (3-0)** Designed to emphasize the professional requirements of teaching and training in a variety of settings. Professional topics include organizations and management of facilities, effective inventory systems, designing challenging course outlines that embrace reform efforts and industry expectations of a global economy and the information age.

**3323 Technology Applications. (3-0)** This course covers the use and integration of computers and multimedia in the classroom or office. Topics include computing hardware and software, word processing, spreadsheets, databases, desktop publishing, graphics, presentation software, the Internet, email, and web-page creation. Opportunity is provided for review of SBEC examination in Trade and Industry.

**3380 Management of Business Office Education Training Programs. (3-0)** For instructors in educational and industry settings. Identification of federal, state, and local policies, coordinating a work-based learning program, benefits of student and professional associations, importance of public relations, site visit to inspect facilities of a classroom or training facility use of technology, and program improvement and evaluation.

**3381 Instructional Strategies in Business Office Education Training Programs. (3-0)** For instructors in educational and industry settings. Identifying curriculum, individual learning styles, instructional strategies, students with special needs requiring modifications, non-gender biased instruction, appreciation of diversity, use of technology and assessment.

**4302 Coordination Techniques. (3-0)** The cooperative program in Marketing and Distributive Education; program establishment; guidance; selection; placement of students; work adjustment; student objectives; evaluation; labor laws; public relations.

**4304 Organization and Management of Marketing Education Programs. (3-0)** Organization and administrative structure in the United States; objectives; programs; practices; teacher selection and supervision; evaluative criteria for business; and distributive education requirements.

**4310 Independent Study in Career and Technology Education. (3-0)** Senior level study of various subjects important to the CATE educator. Work done on an independent study basis with permission of major advisor. Repeatable for credit with different emphasis.

## **Courses in Occupational Education (OCED)**

Students desiring to enter the Occupational Education program must take OCED 4350 as their initial entry course. All students must have a 2.25 GPA to register for the course.

**(WI) 4350 Occupational Assessment. (3-0)** Theory and techniques related to the identification, documentation, and assessment of various forms of prior extra-institutional learning. Career and occupational information, career decision-making, and academic planning are included as a central part of the course. Students are encouraged to have completed their English prior to enrollment in the course.

**(WI) 4360 Cooperative Occupational Education Readiness. (3-13)** This course prepares the student for supervised on-the-job experience in an occupational area. Proposal development, review of

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literature, creation of timelines, and task analysis are stressed. Limited on-the-job experience begins in the course.

**(WI) 4361 Practicum in Cooperative Occupational Education. (3-13)** Course is supervised on-the-job experience in an occupation related to the BAAS professional development. Requires extensive reports and documentation. Prerequisites include successful completion of OCED 4360.