DEPARTMENT OF AGRICULTURE, AGribusiness AND ENVIRONMENTAL SCIENCES

Contact Information
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The Department of Agriculture, Agribusiness and Environmental Sciences prepares students from both rural and urban backgrounds for employment in agribusiness, agricultural education, agricultural production and technology, agronomy, horticulture, soil and environmental science, or government service.

1. The Department offers B.S. degrees in two majors:
   a. Agribusiness (AGBU)
   b. Agriculture Science (AGSC)
2. Agribusiness majors specialize in one of two concentration areas:
   a. Agribusiness
   b. Agribusiness - Ranch Management
3. Agriculture Science majors can specialize in one of four concentrations:
   a. Agriculture Science - General Agriculture
   b. Agriculture Science - Environmental Science
   c. Agricultural Science and Technology with Teacher Certification
   d. Agricultural Science - Plant and Soil Science with three emphasis options:
      i. Agronomy
      ii. Horticulture
      iii. Soil Science

We provide students opportunities to study in classrooms, laboratories, greenhouses and on the university farm. In addition, we encourage students to gain career-related experience through research projects and off-campus internships. We sponsor student organizations in which students can enjoy associating with other students while learning and serving. We strive to develop abilities and values, and to create a nurturing environment for students.

Faculty

Department Faculty

Ancona-Contreras, Veronica Associate Professor, Department of Agriculture, Agribusiness, and Environmental Sciences; B.S., Universidad Autonoma de Nuevo Leon (Mexico); M.S., Texas A&M University-Kingsville; Ph.D., Texas A&M University.

Anoruo, Ambrose Professor, Department of Agriculture, Agribusiness, and Environmental Sciences; Higher National Diploma, Fed. College of Forest Technology (Nigeria); M.S., Southern Connecticut State University; M.S., Yale University; Doctor of Forestry, Yale University.

Bhandari, Ammar Assistant Professor, Department of Agriculture, Agribusiness, and Environmental Sciences; B.Sc., Purbanchal University (Nepal); M.S., South Dakota State University; Ph.D., Kansas State University.

Chumbley, Steven Associate Professor, Department of Agriculture, Agribusiness, and Environmental Sciences; Bachelors, Texas A&M University; M.Ed., Texas A&M University-Kingsville; Ph.D., Texas Tech University.

Donato-Molina, Maria Research Assistant Professor, Department of Agriculture, Agribusiness, and Environmental Sciences; B.S., University of Caldas (Columbia); M.S, Pontificia Universidad Javeriana (Columbia); Ph.D., Texas A&M University.

Hanagriff, Roger Associate Professor, Department of Agriculture, Agribusiness, and Environmental Sciences; B.S., Sam Houston State University; M.Ag., Texas A&M University; Ph.D., Texas A&M University.

Hussey, Mark A Professor, Department of Agriculture, Agribusiness, and Environmental Sciences; President of Texas A&M University-Kingsville; B.S., University of Illinois; M.S., Texas A&M University; Ph.D., Texas A&M University.
Kunta, Madhurababu  Research Assistant Professor; Department of Agriculture, Agribusiness, and Environmental Sciences; B.S., Andra Pradesh Agricultural University (India); M.S., Texas A&M University-Kingsville; Ph.D., Texas A&M University.

Louzada, Eliezer  Professor; Department of Agriculture, Agribusiness, and Environmental Sciences; Texas A&M University-Kingsville Citrus Center; B.S., Universidade Federal Rural do Rio de Janeiro (Brazil); M.S., Universidade Federal Rural do Rio de Janeiro (Brazil); Ph.D., Universidade Federal Rural do Rio de Janeiro (Brazil).

Nelson, Shad  Professor; Department of Agriculture, Agribusiness, and Environmental Sciences; Dean, Dick and Mary Lewis Kleberg College of Agriculture and Natural Resources; Texas A&M University-Kingsville Citrus Center; B.S., Brigham Young University; M.S., Brigham Young University; Ph.D., University of California, Riverside.

Schuster, Greta  Professor; Department of Agriculture, Agribusiness, and Environmental Sciences; Chair; B.S., Texas A&M University-Commerce; M.S., Texas A&M University-Commerce; Ph.D., Texas A&M University.

Setamou, Mamoudou  Professor; Department of Agriculture, Agribusiness, and Environmental Sciences; Texas A&M University-Kingsville Citrus Center; B.S., Benin National University (Benin); M.S., University of Cape Coast (Ghana); Ph.D., University of Hannover (Germany).

Turner, Benjamin  Assistant Professor; Department of Agriculture, Agribusiness, and Environmental Sciences; B.S., Sam Houston State University; M.S., Texas A&M University-Kingsville; Ph.D., South Dakota State University.

Umphres, Alinna  Assistant Professor; Department of Agriculture, Agribusiness, and Environmental Sciences; B.S., Texas A&M University-Kingsville; M.S., Texas A&M University-Kingsville; Ph.D., University of Tennessee.

Williams, Randall H  Professor; Department of Agriculture, Agribusiness, and Environmental Sciences; Regents Professor; B.S., Texas Tech University; M.Ed., Texas Tech University; Ed.D., Oklahoma State University.

da Graca, John  Professor; Department of Agriculture, Agribusiness, and Environmental Sciences; Executive Director, Texas A&M University-Kingsville Citrus Center; B.S., University of Natal (South Africa); M.S., University of Natal (South Africa); Ph.D., University of Natal (South Africa).

Emeritus

French, J. Victor  Professor of Agriculture, Department of Agriculture, Agribusiness, and Environmental Sciences; B.S.A.G., Colorado State University; M.S., Colorado State University; Ph.D., Michigan State University.

Hensz, Richard  Professor of Agriculture, Department of Agriculture, Agribusiness, and Environmental Sciences; B.S., Texas A&M University; M.S., Texas A&M University; Ph.D., University of Florida.

Courses

Agribusiness (AGBU)

AGBU 2301   Prin of Agribusiness Mgmt   3 SCH  (3-0)
An introduction to agribusiness management focused around the four functions of management: planning, organizing, controlling and directing. Applications of budgeting and elementary economic analysis.

AGBU 2317   Introd to Agric Economics   3 SCH  (3-0)
An introduction to agricultural economics including consumer and producer theory, marginal analysis, the definition of supply and demand, their movements and role in price determination and market characteristics.

AGBU 3310   Food and Agric Product Retail   3 SCH  (3-0)
Industrial organization and historical development of the grocery business. Examination of the food chain, perishable product storage and distribution and centralized purchasing functions. Management of the retail profit function with consideration of customer psychology and behavior. Retail food safety with Hazard Assessment and Critical Control Points (HACCP).

AGBU 3320   Intro Systems Thinking Ag   3 SCH  (3-0)
A multi-disciplinary introduction to agriculture, agribusiness, and environmental science with emphasis on a systems approach to natural resource problem solving.

AGBU 3330   Decision Support Tools for Ag   3 SCH  (3-0)
A dynamic approach to understand different systems of interest with emphasis given to decision support systems (DSS) and how different types of models are used to aid in management decision making. Prerequisites: AGBU 3320.

AGBU 3340   Agribus Organization and Mgmt   3 SCH  (3-0)
Management principles relevant to agribusiness firms, including intergration of marketing, human resource management, managerial and leadership concepts, organizational structure, and the financial considerations managers face. Prerequisites: AGBU 2301 and AGBU 2317.

AGBU 3350   Marketing of Farm Products   3 SCH  (3)
Estimating prospective demands for farm products in relation to supplies, improving the accuracy of the system that reflects consumers’ demands to producers and reducing costs and increasing efficiency of marketing. Prerequisite: junior standing.
AGBU 3355  Intl Agribusiness Mktg  3 SCH (3-0)
Description of major markets and competition. Effects of U.S. agricultural trade policies and exchange rates on agriculture and firm rationalization. Topics include strategic alliance formation, market entry strategy, business ethics and corruption, pricing and terms of sale, payment methods, trade finance, cultural analysis, Foreign Trade Zones and Foreign Sales Corporations.

AGBU 3366  Agricultural Policy  3 SCH (3-0)
Agricultural and food policies studied from domestic and international perspectives with emphasis on the economic framework used to assess policies that improve the competitive structure, operation, and performance of U.S. food and agriculture. Prerequisite: AGBU 2317.

AGBU 3370  Agr. Sales and Consulting  3 SCH (3-0)
This course focuses on practical applications of skills needed to develop your own agribusiness, agri-consulting or agri-sales business. This course focuses on financing your agribusiness, marking your services, writing winning proposals, meeting legal requirements, setting fees, keeping the books, and much more. Prerequisites: AGBU 2301 and AGBU 2317.

AGBU 3371  Farm Management  3 SCH (3-0)
Types of farming, size of farms, capital requirements, methods of renting, farm equipment, cropping and marketing system, credit system and farm accounts. Prerequisite: junior standing.

AGBU 3375  Water Resources Policy & Mgmt  3 SCH (3-0)
Overview of water resources policy and management issue with specific focus to agricultural water use and the policy and management considerations for farming, ranching, industry, and conservation problems. Prerequisite: AGBU 2317.

AGBU 3380  Environmental Economics  3 SCH (3-0)
The human-environment relationship studied relative to economic issues of property rights, externalities and resource scarcity as they relate to markets, economies and sustainable development. Prerequisite: junior standing.

AGBU 3390  Special Topics in Agribus  3 SCH (3-0)
Selected topics not currently available in existing courses. May be repeated once under different topic. Prerequisite: junior standing.

AGBU 3995  Internship (WI)  1-9 SCH (1-9)
Supervised and planned work experience under college guidelines in an agriculture enterprise or agency setting. Practical application of knowledge and skills of major subject area without classroom consultation, but with formal evaluation. May be repeated for a maximum of nine semester hours toward degree; may not count toward minor. Prerequisite: written consent of adviser and department chair.

AGBU 4325  Rangeland Resource Econ  3 SCH (3-0)
Economics, management and planning of the ranching industry, range livestock and natural resources. Prerequisite: 3 semester hours of agribusiness.

AGBU 4340  Adv. Agribusiness Management  3 SCH (3-0)
Integration of agribusiness marketing and practices to solve contemporary problems faced by agribusiness marketers. Analyses of agribusiness marketing problems through the application of case studies and strategic planning projects. Prerequisites: AGBU 2301, AGBU 2317 and AGBU 3340.

AGBU 4350  Agricultural Finance  3 SCH (3-0)
Monetary affairs of farming and ranching emphasizing the Farm Credit Administration, credit policies, facilities, procurement, statement analysis, cost of capital, firm growth and management of financial resources.

AGBU 4360  Agricultural Price Analysis  3 SCH (3-0)
Investigation of market operations which determine prices in the agricultural industry. Types of markets that affect price, cycles and trends; relative government policy and techniques of price analysis. Prerequisite: AGBU 3350.

AGBU 4371  Strategic Management  3 SCH (3-0)
The systematic analysis of agribusiness strategic decision-making and management strategies with emphasis on the use of case studies to illustrate different strategic management concepts and the various issues and opportunities faced by today's agribusiness firms. Prerequisites: AGBU 2317 and AGBU 3310.

AGBU 4395  Problems in Agribusiness  1-3 SCH (1-3)
Literature review, laboratory field problem. May be repeated for a total of 6 semester hours, only 3 hours may count toward a minor. Prerequisite: approval of supervising professor.

Agriculture Science (AGSC)

AGSC 1352  Welding  3 SCH (1-4)
Techniques of oxy-acetylene processes in fusion welding of mild steel, bronze welding, hard facing and oxy-acetylene cutting; skills of arc welding in level, horizontal, vertical and overhead position.
Fee: $5.00

AGSC 1451  Introd to Agric Systems  4 SCH (3-2)
A study and application of basic agricultural system processes. Includes design graphics, use of basic tools and machines, instrumentation and basic construction.
Fee: $20.00
AGSC 3352 Agric Power and Machinery 3 SCH (2-2)
Study of internal combustion engines; principles of operation, construction, ignition, carbureting, cooling systems, lubrication, transmission and diesel engines. Agricultural machinery design, construction and use. Prerequisite: AGSC 1451.
Fee: $5.00

AGSC 3363 Prog Plan in Ag Sci and Tech 3 SCH (3-0)
Planning, delivering and evaluating programs for agricultural service agencies such as the cooperative extension service, Natural Resources Conservation Service and any other public or private agency which is responsible for the dissemination of information. Time management, public relations, identification of program goals and industry needs, community needs.

AGSC 3367 Intro to Agric Sci and Tech 3 SCH (3-0)
Philosophy, aims and objectives of agriculture science and technology; historical background of agricultural service agencies and organizations programs; career opportunities and qualifications of personnel as related to agricultural service agencies. Prerequisite: junior standing.

AGSC 3390 Special Topics in Ag Science 3 SCH (2-2)
Selected topics not currently available in existing courses. May be repeated once under a different topic. Prerequisite: junior standing.

AGSC 3995 Internship (WI) 1-9 SCH (1-9)
Supervised and planned work experience under college guidelines in an agriculture enterprise or agency setting. Practical application of knowledge and skills of major subject area without classroom consultation, but with formal evaluation. May be repeated for a maximum of nine semester hours toward degree; may not count toward minor. Prerequisite: written consent of adviser and dean.

AGSC 4353 Agric Building Requirements 3 SCH (2-2)
Construction materials, costs, environment, arrangements and types of structures. Plans and drawings will be made for farmsteads, service buildings and dwellings. Prerequisite: AGSC 1451.
Fee: $5.00

AGSC 4361 Meth Mats Tech Clrm Mgt (WI) 3 SCH (2-2)
Methods, materials and techniques in teaching agricultural science; essential elements; daily and annual teaching plans; curriculum organization, planning and evaluation; instructional methods and strategies, adult and young farmer education; students with special needs; and basic principles and procedures of classroom management.

AGSC 4395 Probs in Agricultural Sci 1-3 SCH (1-3-0)
Literature review, laboratory field problem. May be repeated for a total of 6 semester hours, only 3 hours may count toward a minor. Prerequisite: approval of supervising professor.

AGSC 4666 Studnt Teach in Ag Sci and Tec 6 SCH (6)
Student teaching in agricultural science classes in selected secondary schools. Requires daily (Monday through Friday) laboratory experience of performing the duties of an agricultural science teacher for at least nine weeks. Prerequisites: overall grade point average of 2.5 or better; junior or senior standing; AGSC 3367, AGSC 4361.

Environmental Science (ENVS)

ENVS 2315 Intro Environmental Science 3 SCH (3-0)
Fundamental principles of environmental systems including biological, chemical, social, political, cultural, and economic factors that affect the environment: scientific and social implications of climate change, including anthropogenic pollutants and human population on the environment.

ENVS 3310 Landuse Decisions 3 SCH (3-0)
Impact of land use on natural resource conservation; land ownership and management issues; and development of environmental impact statements. Registration in ENVS 2315 is required.

ENVS 3315 Environmental Health 1-9 SCH (1-9)
Impact of natural occurring and anthropogenic environmental pollutants on human health. Registration in ENVS 2315 is required.

ENVS 3995 Environmental Internship 1-9 SCH (1-9)
Experiential learning of applied environmental science in real-life conditions without classroom consultation, but with formal evaluation. May be repeated for a maximum of nine semester hours toward degree concentration; only three may count toward a minor. Prerequisite: ENVS 2315.

ENVS 4310 Ecology Natural Environ 3 SCH (3-0)
The principles and processes that determine the patterns of terrestrial ecosystems, ecosystem relationship with abiotic factors, and the return of biomass to the abiotic cycles. Emphasis on temporary ecosystems of North America, with review of global ecosystems. Prerequisites: ENVS 2315 or approval of instructor.

ENVS 4320 Aquatic and Marine Ecosystems 3 SCH (3-0)
Inland wetlands, estuaries, nearshore, coral reefs and open ocean habitats; explores vegetation, hydrology, water chemistry, management strategies, flow alterations, nutrient enrichment, and chemical contamination of aquatic habitats. Prerequisites: ENVS 2315 and junior standing.

ENVS 4390 Topics Environmental Science 3 SCH (3-0)
Material offered will be determined by the needs of the students. The course will help each student to pursue his/her niche interest in the wide field of environmental science and environmental studies. May be repeated for credit when topic changes for maximum of 6 hours. Junior standing and approval of supervising instructor.
ENVS 4395 Research Environmental Science 3 SCH (3-0)
Student experiential learning through research under direction of a faculty advisor. May be repeated for a total of six semester hours; only three may count toward a minor. Prerequisites: Junior standing and approval of instructor.

General Agriculture (AGRI)

AGRI 1101 Learning in Global Context I 1 SCH (2)
A student success lab, designed to enhance the opportunity for success of first-year students. In-depth analysis and application, extended readings, internet assignments, class discussion, and consistent student interaction and feedback concerning course content.

AGRI 1102 Learning in Global Context II 1 SCH (2)
A continuation of AGRI 1101, designed to enhance the opportunity for success of first-year students. In-depth analysis and application, extended readings, internet assignments, class discussion, and consistent student interaction and feedback concerning course content. Prerequisite: C or better in AGRI 1101.

AGRI 1201 Agr and Human Sci Professions 2 SCH (2-0)
Designed to help the student define the role of Agriculture and Human Sciences in society. The students will increase their abilities in critical thinking, analysis and communication.

AGRI 2380 Emerging Leaders in Ag 3 SCH (3-0)
A basic introduction to leadership theories and practice with an emphasis on a strengths based leadership framework and the creation of a personal development plan for becoming a campus leader. Serves as entry course to leadership certificate program.

AGRI 3372 Contemporary Issues (WI) 3 SCH (3-0)
Current issues that impact agriculture that include: world food supply/security; the human diet, cultural, economic, and political consideration; environmental concerns; food safety; animal rights/ welfare, genetic engineering, etc., are presented and discussed to provide students with practical and technical knowledge to prepare them for their careers.

AGRI 3995 Internship (WI) 1-9 SCH (1-9)
Supervised and planned work experience under college guidelines in an agriculture enterprise or agency setting. Practical application of knowledge and skills of major subject area without classroom consultation, but with formal evaluation. May be repeated for a maximum of nine semester hours toward degree; may not count toward minor. Prerequisite: written consent of adviser and dean.

AGRI 4171 Seminar 1 SCH (0-1)
A review of current literature on agricultural subjects. Assigned reading on selected topics with weekly conferences.

AGRI 4330 Systems Modeling Analysis 3 SCH (3)
A practical application of systems analysis and simulation within the context of agriculture, ecology, and natural resource management; emphasis placed on development, evaluation and use of simulation models by students. Prerequisite: ARG 3330.

AGRI 4350 Collective Leadership in ANRHS 3 SCH (3-0)
Through case studies, reflective analysis, scenario learning and service learning, students will develop leadership skills in a systems thinking approach to issues in agriculture, natural resources, and human sciences, by application of knowledge in real world contexts. Students will acquire an understanding of the inextricable relationship among agriculture, natural resources, human sciences, and society. Prerequisite: senior standing.

AGRI 4380 Advancing Leaders in Ag 3 SCH (3-0)
A capstone exploration of the role of leadership and commitment to civic engagement with emphasis on the application of leadership development in order to become a socially responsible leader and an active, engaged citizen in agriculture. Prerequisite: AGRI 2380.

Plant and Soil Science (PLSS)

PLSS 1407 General Plant Sciences 4 SCH (3-2)
Fundamental principles underlying the selection, growth, development, maintenance, improvement, utilization and harvesting of cultivated plants.
Fee: $5.00

PLSS 2315 Introductory Horticulture 3 SCH (3-0)
Fundamental basis of horticulture. Emphasis on home gardening, the uses of horticultural plants and their importance to human civilization. Open to all university students.

PLSS 2316 Describing Soils in the Field 3 SCH (3-0)
Art and science of soil description using Soil Taxonomy of the United States Department of Agriculture and Intercollegiate Soil Judging. Provides essential experience for those in soil-related careers. Open to all university students.

PLSS 3318 General Entomology 3 SCH (3-0)
Classification, life histories, habits, and management practices of common local insects and insect pests of plants and animals. Collect, preserve and identify anthropods with emphasis on insects. Prerequisites: PLSS 1407, 3 hours of Biology.

PLSS 3319 Landscape Design 3 SCH (2-2)
Fundamentals of landscape design including historical survey of garden designs, site analysis, development and evaluation of exterior and interior environments of residential, school, commercial and public park areas. Open to all university students.
Fee: $5.00
PLSS 3320 Soil Formation and Class 3 SCH (2-2)
The genesis and evolution of soil profiles as influenced by soil forming agencies, classification schemes, soil survey techniques and utilization of soil maps in management of the soil. Prerequisite: PLSS 3410.
Fee: $5.00

PLSS 3321 Sustainable Soil Water Manaq 3 SCH (3)
Methods of reclamation, conservation and management of soils based on the kinds of soils and adapted crops.

PLSS 3325 Field Crop Production 3 SCH (3)
Production practices, produce quality, environmental considerations in the production of field crops and forage crops. Prerequisite: PLSS 1407.

PLSS 3331 Turf and Urban Plants 3 SCH (3)
Characteristics, description, identification and landscape uses of ornamental trees, shrubs, vines, flowers, ground-covers and grasses adapted to tropic and subtropical zones of the world. Prerequisite: PLSS 1407.

PLSS 3332 Hort Plant Propagation 3 SCH (2-2)
A study of principles and practices of asexual and sexual propagation of horticultural crops. Prerequisite: PLSS 1407.
Fee: $5.00

PLSS 3334 Weed Management in Crops 3 SCH (2-2)
Proper selection, mode of action and application of chemicals for proper weed control and management. Prerequisites: 3 semester hours of chemistry, PLSS 1407.
Fee: $5.00

PLSS 3344 Vegetable Crop Production 3 SCH (2-2)
A study of principles and practices used in commercial production, harvesting, storage and processing of fruit and vegetable crops. Prerequisite: PLSS 1407.
Fee: $5.00

PLSS 3381 Crop Physiology 3 SCH (3)
Physiological concepts underlying the practices utilized in crop production systems as related to growth processes and their mechanisms. Prerequisite: PLSS 1407, 3 semester credit hours of biology.

PLSS 3410 Principles of Soil Science 4 SCH (3-2)
Fundamental principles underlying the formation, characteristics and management of soil. Prerequisites: 3 semester hours of Chemistry.
Fee: $5.00

PLSS 3995 Internship (WI) 1-9 SCH (1-9)
Supervised and planned work experience under college guidelines in an agriculture enterprise or agency setting. Practical application of knowledge and skills of major subject area without classroom consultation, but with formal evaluation. May be repeated for a maximum of nine semester hours toward degree; may not count toward minor. Prerequisite: written consent of adviser and department chair.

PLSS 4312 Integrated Pest Management 3 SCH (3-0)
Current Management practices used to control agriculture, horticulture, wildlife and animal pests. This includes insects, weeds, plant diseases and nematodes as they affect crop and animal production. Introduction to pesticide groups and their ecological effects. Prerequisites: PLSS 3325 and 3 semester credit hours of biology.

PLSS 4313 Landscape Maint and Constr 3 SCH (2-2)
Grading, drainage and construction of landscaped areas to include cost and bid estimation, soil preparation, transplanting operations, arboriculture, turf management, pest and disease control and general maintenance of landscaped areas. Prerequisite: 3 semester credit hours of Biology or PLSS 1407.
Fee: $3.00

PLSS 4325 Plant Breeding and Genetics 3 SCH (3-0)
Methods of plant breeding applied to agronomic and horticultural crops to ultimate development of superior varieties. Practical application of Mendelian genetics in the breeding and improvement of crop plants. Prerequisites: PLSS 1407 and 3 semester credit hours of biology.

PLSS 4326 Hort Fruit Crop Production 3 SCH (3-0)
Tropical and subtropical climates and physiography related to production and management of tropical and subtropical crops including fruits and vegetables, root and tuber crops, beverage crops, oil and industrial crops, legumes, spices, herbs and medicinal plants. Recent significant development in production technology will be presented. Prerequisite: junior or senior standing or permission of the instructor.

PLSS 4327 Soil Water Movement 3 SCH (3-0)
The water-related properties of plants and soil, the properties of water and the natural processes that affect the behavior of water in plants. Prerequisite: junior standing.

PLSS 4328 Intro Plant Pathology 3 SCH (3-0)
Comprehensive study of diseases and arthropod pests of cultivated crop plants with emphasis on symptoms identification, economic importance and control measures. The concept of integrated pest management is discussed. Prerequisite: senior standing.
PLSS 4329  Soil Health and Productivity  3 SCH (2-2)
The principles of soil fertility, mechanisms of plant nutrient uptake and plant nutrient requirements. Includes a study of soil fertility management. Prerequisite: PLSS 3410.
Fee: $5.00

PLSS 4331  Greenhouse Crop Production  3 SCH (2-2)
Commercial production and management of floricultural crops in greenhouses, modern nurseries and other forcing structures. Prerequisite: PLSS 1407.
Fee: $5.00

PLSS 4390  Studies in Plant and Soil Sci  3 SCH (3-0)
Material offered to be determined by the needs of the students. Lecture will vary according to the subject needs with each course having three hour credit. May be repeated for credit when the topic changes. Prerequisites: junior or senior standing.

PLSS 4395  Probs in Plant and Soil Sci  1-3 SCH (1-3)
Literature review, laboratory field problem or undergraduate research under direction of a faculty advisor. May be repeated for a total of six semester hours, only three hours may count toward a minor in PLSS. Prerequisite: approval of supervising professor.

Degree Requirements

Majors

• Agriculture - Agribusiness, B.S. (https://catalog.tamuk.edu/undergraduate/agriculture-natural-resources/agriculture-agribusiness-environmental-sciences/agriculture-agribusiness-bs/)
• Agriculture - Agriculture Science - Agricultural Science and Technology with Teaching Certification, B.S. (https://catalog.tamuk.edu/undergraduate/agriculture-natural-resources/agriculture-agribusiness-environmental-sciences/agriculture-science-agricultural-technology-teaching-certification-bs/)
• Agriculture - Agriculture Science - Environmental Science, B.S. (https://catalog.tamuk.edu/undergraduate/agriculture-natural-resources/agriculture-agribusiness-environmental-sciences/agriculture-science-environmental-bs/)
• Agriculture - Agriculture Science - General Agriculture, B.S. (https://catalog.tamuk.edu/undergraduate/agriculture-natural-resources/agriculture-agribusiness-environmental-sciences/agriculture-science-general-bs/)

Minors

• Agriculture Science, Agribusiness or Plant and Soil Science, Minor (https://catalog.tamuk.edu/undergraduate/agriculture-natural-resources/minors/agriculture-science-agribusiness-environmental-science-plant-soil-science-minor/)