AEROSPACE STUDIES • ASST


1011, 1012 Leadership and Management (1,1) F,S Coreq.: ASST 1001, 1002. 2 hrs. lab. Pass-fail grading. Applied leadership in drill and ceremony, physical fitness, and military presentation. (May be repeated for credit.)


3001, 3002 Air Force Leadership Studies (3,3) F,S Coreq.: permission of instructor. Coreq.: ASST 3001, 3012. Skills required by the successful leader; individual motivational and behavioral processes; leadership, communication, and group dynamics; use of analytical aids in planning and organizing; total quality management; ethics, management of change, organizational power, politics, and managerial strategy.

3011, 3012 Leadership Laboratory III (1,1) F,S Coreq.: ASST 3001, 3002. 3 hrs. lab. Pass-fail grading. Experiences designed to develop leadership potential; study of Air Force customs and courtesies, drill and ceremonies; opportunity to share leadership experiences; and the life and work of an Air Force junior officer.

AFRICAN & AFRICAN AMERICAN STUDIES • AAAS

General education courses are marked with stars (★).

1001 Elementary Swahili Language and Culture (1) ★ See SWAH 1001.

1002 Elementary Swahili Language and Culture (2) ★ See SWAH 1002.


2050 Contemporary Africa (3) African social and political institutions in transition; challenges of democratization and development in the current international context.

3120 Topics in History of Africa and the African Diaspora (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. This course surveys historical moments in the life of Africa and/or African diasporas.

3112 Topics in Pre-Colonial Africa (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Topics include Africa and empires and civilizations from ancient times to colonial period. Emphasizes culture, religion and/or political influence and practices.

3341 African American English (3) Survey of major issues related to historical and contemporary development of African American speech, focusing on linguistic and social factors.

3425 Black Women in America (3) Surveys intersection of race and gender in the U.S. Through historical and contemporary lenses, course examines commonalities, differences, and struggles that mark black women’s subjectivity.

3901 Directed Readings and Research in African and African-American Studies (1-3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Must register with a faculty member before taking the course. (May be repeated for credit.)

3902 Special Topics in African & African American Studies (1-3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Must register with a faculty member before taking the course. (May be repeated for credit.)

4020 Senior Seminar (Prep.: permission of instructor. Capstone for the minor and concentration; planning and execution of a major research project demonstrating the interdisciplinary processes used by those working in the field of African American studies to develop their arguments and interpretations.

4124 Studies in African Diaspora Religions (3) See REL 4124.

4322 Studies in African Literature (3) Also offered as ENGL 4522. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Survey of major figures and texts of drama, fiction, and poetry.

4323 Studies in Caribbean Literature (3) Also offered as ENGL 4523. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Critical analysis of major figures and texts of drama, fiction, and poetry.

AGRICULTURAL ECONOMICS • AGEC

General education courses are marked with stars (★).

1003 Introduction to Agricultural Business (3) Nature and scope of agriculture; introduction to analytical tools; management and marketing concepts to selected agribusiness problem; exploring agribusiness management as a profession.

2003 Introduction to Agricultural Economics (3) F,S Fundamental economic and business principles applied to agricultural production, marketing, consumption, and policy problems.

3003 Economic Analysis in Agricultural Business (3) F Prep.: grade of "C" or above in AGEC 2030 or ECON 2000 and ECON 2010 or equivalent; MATH 1431, 2 hrs. lecture, 2 hrs. lab. Applications of mathematical and economic, microeconomic analysis to problems in the production and marketing of food and agricultural products.

3121 Agribusiness Control and Analysis (3) F,S Prereq.: grade of "C" or above in AGEC 2030 or ECON 2000 and ECON 2010 or ECON 2030 or equivalent. An overview of the agricultural commodity and food marketing system; marketing, management, and economic principles are applied to the formulation and implementation of marketing strategies for agricultural commodities and branded food products; futures market trading principles.

3303 Farm Management (3) F Prepr.: AGEC 2030 or equivalent. Fundamental economic and business principles applied to a farm business; comprehensive and integrated treatment of management concepts for successful operation of a farm business.

3413 Agricultural Business Management Decisions (3) F Prepr.: grade of "C" or above in AGEC 2030 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent. Identification of typical decisions of agricultural business firms; development of concepts, procedures, and analyses of farm management, planning, organizing, directing, coordinating, and controlling functions within agricultural business firms.

3503 Natural Resource Economics (3) Prereq.: AGEC 2030 or equivalent. Economic rationale for collective, public action in allocation of natural resources in agricultural production; analysis on the role of private property, resource use, legal concepts, institutions, and project evaluation.

3613 Agricultural Entrepreneurship (1-3) Prereq.: AGEC 2030 or equivalent and approval of department head. May be taken for a max. of 9 sem. hrs. of credit Supervised career-oriented experience with a business or organization in the food and fiber system.

3803 Agricultural Law (3) F,O Principles of law and their application to agricultural business firms and institutions, legal processes and relationships relevant to agriculture; Louisiana Civil Code and statutes; federal law, including bankruptcy code; analysis and review of cases, documents, and processes.

4203 Intermediate Food and Fiber Products Marketing (3) F,O Prepr.: AGEC 2030 or equivalent. Market organization analysis applied to the food and fiber system; emphasis on structural problems and their control by competition, antitrust, and government regulation.

4213 Economics of Milk Marketing Systems (3) S-O Prereq.: AGEC 2030 or equivalent. Analysis of the milk production and marketing system; market channels, characteristics, institutions, and government regulations in pricing and marketing milk.

4243 Agricultural Price Analysis (3) S Prepr.: grade of "C" or above in AGEC 2030 and ECON 2000 or ECON 2010 and ECON 2030 and ECON 2040. Theory and evidence relating to internal decision making and control, financial accounting, and auditing.

4244 Farm and Rural Land Appraisal (3) F,O Prepr.: grade of "C" or above in ACCT 2000 or equivalent; grade of "C" or above in AGEC 2030 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent. Capital acquisition and use in the agricultural sector; cost and availability of credit; emphasis on financial management concepts for managing growth, leverage, liquidity, risk, and capital investment in agricultural business.

4433 Agricultural Business Planning, Management, and Policy (3) S Prepr.: grade of "C" or above in AGEC 2000 or equivalents; senior standing; AGEC 3003, 3213, 3415; MKT 3401; MGT 3200; and BLAW 3200 or 5201. Integration of management, marketing, and financial concepts for successful planning and management of agricultural business decisions; feasibility analysis, marketing policy, personal policy, marketing mix, pricing decisions, market segmentation, marketing strategy, and fiscal policy.

4434 Farm and Rural Land Appraisal (3) F Prepr.: AGEC 2030 or equivalent. Not for graduate AGEC degree credit. Development and application of land appraisal techniques to value agricultural land; land appraisal applied to rural property; trends in rural real estate values; factors influencing rural real estate values; applications used in rural land use planning and management.
Agriculture & Agri

General education courses marked with stars (★)

1001 Introduction to Agriculture (1) F Enrollment in this course is limited to freshmen in the College of Agriculture or by permission of the instructor. Prerequisites and educational requirements in all fields of agriculture, and careers in agriculture.

1005 Science and Society (3) Principles of biology applied in a sociological context; relationships among scientific inquiry, ethics, social values, and public policies for the beginning student.

2001 Special Topics in Agriculture (1-3 Prereq.: permission of instructor. May be repeated for a max. of 6 sem. hrs. of credit. May be designed to aid students in becoming aware of the issues facing them as they pursue leadership roles in agriculture.

2900 Directed Studies in Agricultural Leadership Development (Prereq.: HRL 2723 or permission of instructor. Faculty directed leadership development practicum in an agricultural-related activity or program intended to integrate academic learning with practice.

Agronomy

General education courses marked with stars (★)

1001 Introduction to Managed Plant Systems in the Modern World (3) ★ S 2 hrs. lecture; 2 hrs. lab. Survey of plant kingdom; development of plants; ecosystem structure, sustainable agriculture and animal/plant systems; plant nutrition, food additives, and food safety; plant breeding for improved food and fiber; biotechnology and its role in modern agriculture.

2011 Analysis of Environmental Issues (3) See EMS 2011.

3000 Principles of Crop Production (3) ★ Prereq.: BIOL 1002 or 1212 or equivalent. 3 hrs. lecture; 2 hrs. lab. Also offered as EMS 3501. Principles of soil science; properties of soils related to plant growth and the environment.

2066 Introduction to Turfgrass Management (3) See HORT 2066.

3090 Advanced Soil Fertility and Plant Nutrition (4) ★ Prereq.: consent of instructor. Independent research designed to provide an understanding of the growth and practices involved in production of soybeans, cotton, and sugarcane.

3012 Spring Crop Production Laboratory (1) ★ Prereq.: 1001, 1002, or equivalent. 2 hrs. lecture; 2 hrs. lab. Field and laboratory research designed to provide an understanding of the growth and practices involved in the production of small grains.

3013 Summer Crop Production Laboratory (1) ★ Prereq.: AGRO 3000. Field and laboratory research designed to provide an understanding of the growth and practices involved in the production of small grains.

3040 Soil Conservation (2) ★ Prereq.: AGRO 2051A. Also offered as EMS 3045. Causes and effects of soil erosion and sedimentation; their effects on the quality of the environment; methods of reducing erosion and soil environmental pollution.

3090 Agronomic Internship (3) ★ Prereq.: overall GPA of 2.50 and written consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Work experience in crop, soil, or environmental quality related areas culminating in acceptable written reports and a seminar presentation.

4005 Foreage Ecology and Management (3) ★ Forage crop physiology, adaptation, production, utilization, and management; impact on the environment.

4052 Soil Fertility and Soil Management (4) ★ Prereq.: AGRO 2051, 3 hrs. lecture; 2 hrs. lab. Factors affecting plant growth and utilization of essential elements; mechanisms of nutrient uptake; diagnosis of deficiencies; use of lime and fertilizers; potential nutrient losses.

4054 Chemical Properties of Soils (4) ★ Prereq.: AGRO 2051. 3 hrs. lecture; 3 hrs. lab. Also offered as EMS 4055. Chemical and mineralogical properties of soils; their effect on nutrient sources and utilization; effects of non-hazardous amendments on soil properties.

4056 Microbial Ecology and Nutrient Cycling in Soils (4) ★ Prereq.: AGRO 2051. 3 hrs. lecture; 3 hrs. lab. Also offered as BIOL 4256 and EMS 4056. Microorganisms in terrestrial environments and biogeochemical processes influencing C, N, S, and P cycling; role of microorganisms in biological nitrogen fixation, plant nutrient availability, formation of soil humus and inorganic and organic materials; impact of microbial processes on environmental quality.

1025 Soil Morphology and Classification (4) ★ 2 hrs. lecture; 4 hrs. lab (field and mapping). Genesis, profile morphology, processes related to classification and soil taxonomy, relationships and soil process and classification to environmental quality.

4064 Principles of Plant Breeding (4) ★ Prereq.: AGRO 2001 or equivalent. 3 hrs. lecture; 3 hrs. lab. Also offered as HORT 4044. Methods of plant genetic improvement: hybridization, genetic manipulation, and variety development; selection for improved pest resistance; genetic engineering and biotechnology.

4070 Weed Science and the Environment (3) ★ Prereq.: BIOL 1001, 1002, CHEM 1001, 1002. 2 hrs. lecture; 2 hrs. lab. Weed biology and economic importance of weeds in the diverse agriculture of Louisiana; weed management programs, characteristics of important herbicides, mechanisms of herbicide action, fate of herbicides in the environment, and pesticide application, labeling, and standards.

4071 Weed Biology and Ecology (3) ★ Prereq.: BIOL 1001, 1002, or equivalent. 2 hrs. lecture; 2 hrs. lab. Study of general plant ecological principles, reproduction, doubling rate, interference, allelopathy, herbicide resistance, and the impact of weed control mechanisms on weed and crop competition.

4077 Environmental Soil Physics (3) ★ Prereq.: AGRO 2051. Also offered as EMS 4077. The physical soil system; the soil components and their physical interactions; sources of contaminants; anaerobic environments, contaminated soils, air, and heat; fate and transport of applied chemicals in the soil profile and processes governing the mobility of chemicals in the soil.

4078 Land Use Planning and Land Management (3) ★ Prereq.: AGRO 3540 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Land use planning and management based on chemical, mineralogical, and physical properties of soils; includes applications of soils, plants, hydrology, and remote sensing datasets for advanced GIS analysis; areas of use and management include crops, pasture, forest and woodland, metropolitan, transportation, waste disposal, wildlife and the disturbed lands.

4080 Advanced Crop Production and Management (3) ★ Prereq.: AGRO 1021 and BIOL 3006 or equivalent. Effect of cultural practices on plant physiological/ecological interactions affecting crop growth, development, and yield.

4090 Agronomic Problem Solving (3) ★ Prereq.: AGRO 2051 or equivalent; BIOL 3040 or AGRO 4080; AGRO 3000 or equivalent. Analysis and solution of specific agronomic problems; emphasis on researching literature, group discussion, and development of answers to hypothetical management questions.

4091 Special Topics in Crop Science (1-3 Prereq.: writ- ten consent of instructor. May be repeated for credit; a total of 6 sem. hrs. may be earned in AGRO 4091 and 4092 combined.

4092 Special Topics in Soil Science (1-3 Prereq.: written consent of instructor. May be repeated for credit; a total of 6 sem. hrs. may be earned in AGRO 4091 and 4092 combined.

6011 Topics in Plant, Environmental and Soil Sciences for Teachers (3) See EMS 6011.

7001 Agronomy Seminar (1) May be repeated for credit. 1 hr. seminar; reports.

7040 Research Methods in Plant Science (3) ★ Prereq.: EXET 7005; or equivalent; field research experience. Research activities and methodology used to conduct field research in plant science and pest management disciplines from initial planning through publication of results; areas of emphasis include research proposal preparation and protocol development; selection of experimental design and implementation of research; data analysis, interpretation, and report writing; and manuscript preparation.

7041 Plant-Herbicide Physiology (3) ★ Prereq.: AGRO 3000 or equivalent. 2 hrs. lecture; 2 hrs. lab. Lab project includes several techniques used in plant-herbicide physiology research. Physiological and physical interactions of herbicides and detailed knowledge of the specific mode of action, entry, movement, metabolism, and selectivity mechanisms of each chemical family of herbicides.

7042 Soil-Pesticide Interactions (3) ★ Prereq.: AGRO 2051 and AGRO 4070 or equivalent. Chemical, physical, and biological properties of pesticides; performance and dissipation of pesticides; fate of pesticides in the environment.

7051 Advanced Soil Fertility and Plant Nutrition (4) ★ Prereq.: AGRO 4052 and BIOL 3060 or equivalent.