hr. lecture; 2 hrs. lab. Principles of biodegradability and acquisition of mineral nutrients by crop plants; interactions of plant roots with the soil environment; fertilizer use efficiency.

7052 Micronutrients in Soils and Crops (4) S 3 hrs. lecture; 2 hrs. lab. Concentration of the micronutrients (boron, copper, zinc, manganese, iron, molybdenum, chromium, cobalt) and their influence on growth of crop plants.

7055 Advanced Soil Chemistry (3) F-O Prereq.: AGRO 4055, MATH 1532, and one semester of physical chemistry. Theory of chemical properties of soils; emphasis on soil solution chemistry and soil environmental properties.

7056 Current Topics in Soil Microbiology (3) F-O Prereq.: AGRO 4056 or equiv. 2 hrs. lecture; 2 hrs. lab. Role of soil microbial processes in maintaining environmental quality; fate and behavior of introduced microorganisms; methods of investigation; development of a laboratory consistent with students’ interests.

7057 Advanced Soil Physics (4) F 3 hrs. lecture; 2 hrs. lab. Also offered as EMS 7057. Physical properties of the soil matrix, soil-water relation, and processes governing water, gas, solute, and heat fluxes in the soil profile.

7058 Advanced Pedology (3) S-O Theory and current literature on pedologic processes responsible for the phsyical, chemical, and mineralogical properties found in soil environments.

7066 Agronomic Crop Breeding Techniques (1) F-Su 2 hrs. lab. May be repeated in the alternate semester for a max. of 2 hrs. of credit. Practical experience in hybridization of agronomic and horticultural crops; objectives, methodologies, and rationale of specific breeding programs; selection procedures; computerized record keeping and data management.

7068 Soil Mineralogy (3) F-O Prereq.: GEOG 2082 or AGRO 4055 or equivalent. 2 hrs. lecture; 3 hrs. lab. Variety, distribution and concentration of major minerals in soils; their physio-chemical properties and reactions; their significance to agriculture and the environment.

7070 Advanced Plant Breeding (4) S-E Prereq.: AGRO 4064 and EST 7014; or equivalent. 3 hrs. lecture; 2 hrs. lab. Also offered as HORT 7070. Advanced methods of plant breeding; empirical breeding for insect, pathogen, and abiotic stress resistance; breeding strategies and theory; resource allocation and evaluation of breeding methodology.

7071 Advanced Plant Genetics (4) S-O See HORT 7070. 7074 Quantitative Genetics in Plant Improvement (3) F-E Prereq.: HORT 7063 or AGRO 7063 and EST 7022. Also offered as HORT 7074. Genotypic and environmental values, their effects and interactions, homeostasis, stability, variances, covariances, combining ability, genetic advance, selection indices, molecular markers for quantitative trait loci.

7165 Biogeochemistry of Wetland Soils and Sediments S (3) Same as OCS 7165.

8000 Thesis Research (1-12 per sem.) S'TU' grading.

8901 Research in Crop Science (3-6) Prereq.: consent of department.

8902 Research in Soil Science (3-6) Prereq.: consent of department.

9000 Dissertation Research (1-12 per sem.) S'TU' grading.

ANIMAL SCIENCE • ANSC

1011 Introduction to Animal Science (3) F-S Flow and productivity of beef cattle, sheep, swine, and horses; their role in American agriculture.

2001 Farm Unit Internship (1) F-S,Su Prereq.: ANSC 1001 and consent of department head. 1 hr. work experience. May be taken for a max. of 5 sem. hrs. of credit, one each in beef, horse, sheep, swine, and meat units. Pass-fail grading.

2002 Companion Animal Management (3) Care, feeding, breeding, health care of companion animals; emphasis on dogs and cats; opportunities in the pet-related fields and industries.

2133 Growth Development of Livestock (3) S 2 hrs. lecture; 2 hrs. lab. Cell, tissue and body growth, development, and composition; patterns of tissue deposition in livestock; control and modification of normal and abnormal growth; evaluation and measurement of composition of beef, sheep, swine, and horses.

3033 Elements of Animal and Carcass Evaluation (3) F 1 hr. lecture; 4 hrs. lab. Basic principles and techniques involved in evaluation of meat animals and their carcasses.

3034 Advanced Livestock Carcass Evaluation (3) S Prereq.: ANSC 3033. 1 hr. lecture; 4 hrs. lab.

3051 Animal Science Problems (1-6) F-S,Su Prereq.: consent of department. May be taken for a max. of 6 sem. hrs. of credit. Directed individual study of a problem in domestic animal homeostasis and their interaction with production; current laboratory techniques.

3053 Meats (4) F 2 hrs. lecture; 6 hrs. lab. Structures and processes for mammalian tissues in vitro and general biotechnical techniques; emphasis on application to biological research.

3054 Anatomy of Gamete and Embryo Physiology and Micromanipulation (4) S (even-numbered years) Prereq.: ANSC 4045 or equivalent. 3 hrs. lecture; 2 hrs. lab. Principles for manipulations of gametes and embryos; production: physiology of reproduction; meat technology.

7001 Seminar (1) F May be taken for a max. of 4 hrs. of credit.

7002 Special Topics in Animal Science (1-6) F-S,Su Prereq.: consent of department head. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Special topics of interest in animal science.

8000 Thesis Research (1-12 per sem.) S'TU' grading.

9000 Dissertation Research (1-12 per sem.) S'TU' grading.

ANTHROPOLOGY • ANTH

General education courses are marked with stars (★).

★ 1001 Introduction to Physical Anthropology and Prehistory (3) Origin and evolution of people; evolution and its physiological bases; human prehistory; human diversity; evolution of human culture through the rise of civilization.

★ 1002 Introduction to Cultural and Social Anthropology (3) Recent developments in cultural anthropology; the roles of social organization, subsistence patterns, economics, law, politics, religion, language, and other institutions of culture vary in cross-cultural perspective.

★ 2015 Introduction to Archaeology (3) Archaeological goals, methods, techniques, and interpretations; particular problems of cultural social organizations or processes; relationships of archaeology with other social, life, and earth sciences.

2016 Field Methods in Archaeology (3-6) Prereq.: ANTH 2015 or equivalent. May be taken for a max. of 6 sem. hrs. of credit. Techniques of survey, mapping, excavation, and recording; participation in one or more archaeological excavations.

★ 2050 World Archaeology (3) Survey of human culture history from the stone age to the present; spread of human activity around the globe; major cultural developments including hunting and gathering, origins of agriculture, discovery and spread of metalworking, rise of ancient civilizations, and development of the modern world.

★ 3001 Introduction to World Ethnography (3) Sex roles, economic pursuits, values, beliefs, families, and other institutions of selected nonwestern peoples; implications for American culture.

★ 2423 Introduction to Folklore (3) See ENGL 2423.

3004 Archaeology and the Bible (3) See REL 3004.

3015 The Archaeology of Ancient Greece (3) See CLST 3015.

3060 Introduction to Anthropological Linguistics (3) Cultural variation in language; linguistic features of language classification and areal linguistics; practice in phonemic and morphemic analysis of nonwestern languages.

3401 The Study of Folklore (3) Also offered as ENGL 3401. History of the study of folklore; methods of collection, interpretation, and analysis of folklore materials; myth, folklore, legend, folk song, ballads, folk humor, festival, and folk speech; psychological, contextual, and structural analysis of oral literature; specific reference to the heritage of Louisiana and the South.

3909 Undergraduate Seminar in Anthropology (3) May be taken for a max. of 9 hrs. of credit when topics vary.

4002 South Asian Society, Polity, and Culture (3) See INDT 4002.

4003 Indian Civilization of Middle and South America (3) Ancient Maya, Aztec, and Inca civilizations; modern Indian groups in Latin America.

4004 The North American Indians (3) Origin, distribution, language, and culture of the aboriginal population.

4008 Ancient Civilizations of Middle America (3) Archaeological settlement, developments, agriculture, rise and fall of ancient civilizations in Middle America including Olmec, Maya, and Aztec.

4010 Ancient Ostracology (3) Prereq.: Permission of instructor. Evolutionary biology and functional anatomy of the human skeleton.

4012 Archaeology of Death (3) Archaeological approaches to the study of historic cemeteries and ancient
4014 Forensic Anthropology (3) Fundamental concepts and applications of forensic anthropology.
4015 North American Archaeology (3)
4016 Old World Archaeology (3) Cultural developments in prehistoric and neolithic times; earliest evidence of humans to the foundations of civilization.
4017 Latin American Archaeology (3) Also offered as ANTH 4015 or equivalent. Subject matter and techniques of ethnography; emphasis on utilization of informants. Archaeological data relative to the Indian cultures dating from the end of the Pleistocene period to the early historic era.
4018 African Archaeology (3) Also offered as HIST 4151. Broad range of archaeological methods, media, and interpretations unique to the study of the historic past; colonize social anthropology in the southeastern U.S.
4019 Geochronology (3) Also offered as GEOG 4019. Prereq.: ARCH 4000 or equivalent.
4020 Method and Theory in Archaeology (3) Prereq.: ANTH 1001 or ANTH 1015 or equivalent. Empirical method and theory in archaeological research emphasizing the logic of scientific argument; history of American archaeology, survey of modern archaeological interpretations, types of explanation, logic of archaeological classification, and formation of research designs.
4021 Advanced Field Methods in Archaeology (3-6) Prereq.: ANTH 2001 and 2016 or equivalent and at least one upper-division or graduate course in archaeology. May be taken for a max. of 6 sem. hrs. credit when topics vary. Advanced techniques of surveying, mapping, excavation, soil sampling, and recording.
4022 Ancient Civilizations of South America (3) Survey of South America and the development of human civilizations. Archaeological perspective used to explore the various ways of life and cultural achievements in the various regions of the continent from the Amazon forests to the Andean highlands and the Pacific desert.
4023 Latin American Cultures (3) Spanish-American cultures. Latin America; their relationship to current societal changes.
4031 Comparative Religions (3) Also offered as REL 4031. Religious systems in different levels of sociocultural evolution.
4032 Religion, Gender, and Society (3) See REL 4032.
4040 Physical Anthropology (3) Prereq.: ANTH 1001, or BIOL 1002 or BIOL 1022. Evolutionary theory, human variation, fossil record of human evolution, and primate behavior.
4050 Black Music in America (3) Cultural and historical survey of musical genres created and developed by black Americans.
4051 Africa (3) Races and cultures of Negroid Africa. 4053 African-American Cultures (3) UVERTURE to African-American culture in the western hemisphere; their origins, development, and present distinctiveness.
4060 Language and Culture (3) Prereq.: ANTH 3060 or COMD 2050 or equivalent. Also offered as LNG 4060. Relationships between various aspects of language and culture.
4064 Pidgin and Creole Languages (3) Prereq.: ANTH 4060 or equivalent. Also offered as FREN 4064 and LING 4064. Linguistic, sociolinguistic, and anthropological study of new languages in contact situations, particularly among peoples of different races and cultures; languages of the slave trade and European commercial expansion from the 16th through the 19th centuries.
4070 Medicine, Bodies, and Power (3) Examines bodily practice, social theory, and cultural analysis of the body in health, illness, and healing. Cross-cultural perspectives and ethnography are considered in relation to forms of social power.
4074 Place and Culture (3) Also offered as GEOG 4074. Consideration of place and culture as two core concepts in geography and anthropology.
4081 Human Evolution (3) The biological and cultural evolution of the human species.
4082 Social and Cultural Anthropology (3) For graduate students with little or no anthropology background. Culture, society, and language in primitive and complex settings.
4083 Quaternary Paleocology (3) See GEOG 4083.
4085 History of Anthropological Theory (3) Major theories in all phases of anthropology; emphasis on cultural and social anthropology.
4086 Human-Environment Interactions (3) See GEOG 4086.
4087 Gender, Place, and Culture (3) Also offered as GEOG 4087 and WGS 4087. Prereq.: ANTH 2001 or equivalent.
4440 Vernacular Architecture and Material Culture (3) Also offered as ARCH 4440. Subject matter and instructor may vary; additional details available from department.
4470 Folklore of the African Diaspora (3) African, Caribbean, and African-American cultures from the viewpoint of the diaspora.
4475 Architectural History (3) See ENGL 4475.
4490 Undergraduate Seminar in Anthropology (3) Prereq.: written consent of instructor. May be taken for a max. of 9 sem. hrs. credit when topics vary.
4497 Special Topics in Anthropology (3) Permission of instructor. May be taken for a max. of 6 sem. hrs. when topics vary.
4498 Independent Reading and Research in Anthropology (1-6) Prereq.: written consent of instructor.
4499 Independent Fieldwork (1-6) An honors course, ANTH 4999, is also available. Supervised reading or research selected by qualified students.
4999 HONORS: Special Reading and Research in Anthropology (1-6) Same as ANTH 4998, with special honors emphasis for qualified students.
7023 Comparative Studies in World Costume (3) See HUEC 7035.
7060 Conversation and Discourse (3) Prereq.: completion of one course in linguistics. Also offered as LING 7060. Analysis of language in use; conversation, narrative, culturally specific genres; emphasis on discourse structures in naturally occurring context.
7074 Poetics of Place (3) Prereq.: ANTH/GEOL 4074 or permission of instructor. Also offered as GEOG 7074. Combination of the observational method of social science with the literary insights of poetry and fiction; understanding of how places where humans live out their lives convey a variety of meanings beyond that of the strictly utilitarian.
7105 Seminar in Historical Archaeology (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.
7108 Mesoamerican Archaeology Seminar (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.
7200 Human Fertility (3) Biological, behavioral, and demographic aspects of human reproduction.
7760 Readings in Creolization (3) A seminar on linguistic, literary, historical, and anthropological creolization and creolized cultures.
7766 Readings in the Caribbean and Louisianahiana (3) Seminar on the theoretical interpretation of Caribbean and Louisiana cultures.
7901 Introduction to Graduate Study (1) Same as GEOG 7901. Techniques and methods of the profession for incoming graduate students.
7906 Nature of Culture (3)
7909 Selected Topics in Anthropology (3) Permission of instructor. May be taken for a max. of 9 hrs. of credit when topics vary. Also offered as LING 7909.
7954 Anthropology of Complex Societies (3) Anthropological assumptions of theory and technique; problems generated by approaches to contemporary Africa, India, Latin America, and Anglo-America.
7962 Field Methods in Linguistics (3) Prereq.: at least one of the following courses: ARCH 2002, ARCH 3001, or consent of instructor. 1 hr. individual consultation. Also offered as LING 7962. Recording and analyzing a living non-European language and using a native speaker as a research resource.
7999 Research in Anthropology (1-6) Prereq.: written consent of instructor. May be repeated for credit. Total credit earned in ANTH 4999 and 7999 cannot exceed 9 sem. hrs. Also offered as LING 7999. Individual supervision of advanced research and field work in anthropology.
8000 Thesis Research (1-12 per sem.) Permission of instructor. "S"/"U" grading.

**ARABIC**

**ARABIC**

Native speakers of Arabic will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (**).