

College of Agriculture and Life Sciences

Department	Course Number & Name	Description	Prerequisites
Agronomy (SCSC)	SCSC 101. Introduction to Soil and Crop Science.	Brief summary of sciences of agronomic crops, soils and water; management, production and processing of various crops; education, employment and research pertaining to respective professions	
Agronomy (SCSC)	SCSC 105. (AGRI 1307, 1407) World Food and Fiber Crops	Plant relationships, structure and development; environmental factors affecting plants; technological aspects of agricultural practices; food production for an increasing population.	
Animal Science (ANSC)	ANSC 207. Art and Heritage of Livestock	Using art as a venue to understand the legacy and heritage of livestock production and livestock's contribution to civilization and society; from man as hunter, agriculturalist, and finally, as industrialist; from cave paintings to Russell and Remington; history of the effects of painting, poetry, architecture and sculpture on agriculture.	
Agricultural Communications and Journalism	AGCJ 203 Agricultural Media Writing I	News gathering, writing, editing and ethics for current and emerging mediums used in agricultural communication; includes news identification, basic news writing methods, introduction to public relations, broadcast and Internet writing; interviewing skills, proper use of direct quotes and other news style; credit cannot be given for both AGCJ 203 and JOUR 203.	Prerequisite: Grade of C or better in AGCJ 105.
Agricultural Communications and Journalism	AGCJ 105: Introduction to Agricultural Communications	Introduction to mass communication, its history, role in society, and especially its unique role in agriculture; importance of mass communication and the communication methods used in modern society; foundation for an understanding of agricultural news and information	credit cannot be given for both AGCJ 105 and JOUR 102.
Agricultural Communications and Journalism (AGCJ)	AGCJ 303 Agricultural Media Writing II	Interpretative agricultural news gathering and writing for all media types; basic media law and ethics, interviewing skills with assigned practice writing about agriculture, and science and technology, including meeting and event coverage both on and off campus;	Grade of C or better in AGCJ 203; junior or senior classification
Agricultural Communications and Journalism (AGCJ)	AGCJ 305. Theory and Practice of Agricultural Publishing	print, broadcast, Interactive and other media; Audience identification, publication content, management and design; analyze existing agricultural publications, identify audiences, advertising base and content	AGCJ 105; junior or senior classification
Agricultural Communications and Journalism (AGCJ)	AGCJ 307. Electronic Media Production in Agricultural Communications	Study of the principles, concepts, and practices of agricultural industry uses of electronic media production (radio, television and computer) for advertising, informational videos, computer-mediated instruction and distance education	Computer usage course and AGCJ 105; junior or senior classification.
Agricultural Communications and Journalism (AGCJ)	AGCJ 308: Agricultural Photography.	Develop knowledge of photography, editing software, and composition techniques used in the agricultural communications field; develop photography and photo editing skills to a satisfactory level as demonstrated by performance on assignments and exams.	Junior or senior classification.
Agricultural Communications and Journalism (AGCJ)	AGCJ 404. Communicating Agricultural Information to the Public	Use of agricultural journalism principles and techniques to communicate scientific information related to agriculture, agribusiness, natural resources and life sciences to the general public; communication processes include audience identification, writing, editing and production of agricultural science-based manuscripts for popular and refereed publications.	Junior or senior classification
Agricultural Communications and Journalism (AGCJ)	AGCJ 407. Web Authoring in Agricultural Communication	Study and practice of basic Web site design theories, principles and writing for the Web; use of Web authoring software (not a programming class) to create online publications tailored for agricultural audiences; emphasizes informative content and functional design.	AGCJ 307; junior or senior classification

Agricultural Economics (AGEC)	AGEC 217 Fundamentals of Agricultural Economics Analysis	Relates contemporary agribusiness issues to economic and financial management, illustrating their integration toward pragmatic applications in the agricultural industry; lab focuses on the integration of mathematics and economics with computer skills directed toward spreadsheets, databases, web pages, and communications software; emphasis is on writing as a critical communication skill.	Prerequisites: AGECE 105; ENGL 104; MATH 141; MATH 142; and sophomore or junior agricultural economics or agribusiness majors; or approval of department head.
Agricultural Economics (AGEC)	AGEC 314: Marketing Agricultural and Food Products.	General introductory course covering operations involved in movement of agricultural commodities from farmer to consumer, essential marketing functions of buying, selling, transportation, storage, financing, standardization, pricing, and risk bearing.	AGEC 105 or 3 hours of economics; and junior or senior classification.
Agricultural Economics (AGEC)	AGEC 315. Food and Agricultural Sales	Principles of professional sales techniques used in food and agricultural firms; develop a professional sales presentation; study current agribusiness industry professional salespersons	Junior or senior classification
Agricultural Economics (AGEC)	AGEC 325. Principles of Farm and Ranch Management.	Agribusiness managerial decision making and analysis in different market environments; emphasis is on profit maximization; lab focuses on using computerized methods for evaluating management alternatives for farming and ranching problem situations.	AGEC 105 or ECON 202; junior or senior non-agricultural economics, non-agribusiness majors only; and knowledge of Excel.
Agricultural Economics (AGEC)	AGEC 330. Financial Management in Agriculture	Principles of financial management of farms, ranches, livestock operations, and other agribusiness firms; financial statement analysis, investment analysis, firm growth, risk management, cost of capital, income taxes, business organization, estate planning, legal aspects of borrowing, and sources and terms of agricultural loans.	AGEC 105 or 3 hours of economics; ACCT 209 or 229; and junior or senior classification.
Agricultural Economics (AGEC)	AGEC 340: Agribusiness Management	Systematic analysis of agribusiness firm-level decision making using a broad array of management concepts, managing agribusiness firms and their unique problems and opportunities, and exposure to decision making in agribusiness environment.	AGEC 105 or 3 hours of economics; and junior or senior classification.
Agricultural Economics (AGEC)	AGEC 344. Food and Agricultural Law	Legal problems relevant to agribusiness; torts, fencing laws, liability for agricultural pollution, irrigation water rights, corporations and partnerships	Junior or senior classification
Agricultural Economics (AGEC)	AGEC 350: Environmental and Natural Resource Economics	Inspection of issues such as environmental degradation, population growth, recycling, water use and depletion, natural habitat protection, water and air pollution, acid deposition, fishery management, and global warming; using economically-derived principles and tools. Arranged during spring break or between semesters; field trip to observe operations of agricultural business firms, state and federal agencies and	Junior or senior classification.
Agricultural Economics (AGEC)	AGEC 400 Field Studies in Agricultural Economics	farms and ranches; test on field studies required; additional expenses to be borne by students	AGEC 105 or 3 hours of economics; and junior or senior classification
Agricultural Economics (AGEC)	413. Agricultural Cooperatives	Historical development and principles of cooperative associations in our economic system; organizational and operational aspects of cooperatives; legal considerations, financing, management, and member relations; and future role of cooperatives	AGEC 105; AGECE 314; and junior or senior classification
Agricultural Economics (AGEC)	AGEC 424. Rural Entrepreneurship I	Strategic planning regarding economic and financial feasibility of rural business ventures; emphasis on processes for developing a comprehensive enterprise analysis; including management information system components; production, marketing, and financial plans; enterprise budget(s); and evaluation of risk management alternatives; and exchanges with "real-world" lenders, entrepreneurs, and other agribusiness management personnel.	AGEC 217; AGECE 317 or concurrent enrollment; AGECE 330 or FINC 409/341; ACCT 209/229; ACCT 210/230; and junior or senior classification; or approval of department head.
Agricultural Economics (AGEC)	AGEC 425. Rural Entrepreneurship II.	Strategic planning regarding feasibility of rural business ventures; emphasis on processes for developing comprehensive economic and financial prospectuses, including enterprise budgets, risk management planning, cash flow budgeting, net worth statements, income budgets, reconciliation statements and shock analysis; and exchanges with "real-world" lenders, entrepreneurs, and other agribusiness management personnel.	AGEC 424; and junior or senior classification.
Agricultural Economics (AGEC)	AGEC 453. International Agribusiness Marketing.	Basic competencies in international marketing of agri-foods; and market entry, pricing, payment, finance, and promotion.	AGEC 105 or 3 hours of economics; and junior or senior classification.

Agricultural Economics (AGEC)	AGEC 429. Agricultural Policy	Analysis of the causes, nature, and effects of government participation in agriculture; and interrelationship of the American agriculture and agribusiness sector with the political and economic system, public administration, and interest group representation	AGEC 105 or 3 hours of economics; ENGL 104; and junior or senior classification
Agricultural Economics (AGEC)	AGEC 447. Food and Agricultural Price Analysis	Factors influencing the level of food and agricultural prices; price trends and seasonal variation; methods of forecasting demands and prices; and futures trading	AGEC 314; AGEC 317; and junior or senior classification
Agricultural Economics (AGEC)	AGEC 453. International Agribusiness Marketing	Basic competencies in international marketing of agri-foods; and market entry, pricing, payment, finance, and promotion	AGEC 105 or 3 hours of economics; and junior or senior classification
Agricultural Leadership and Development (ALED)	ALED 340. Professional Leadership Development.	Identification of styles and roles of leadership; development of leadership techniques and skills required in working with organizations and youth groups; methods of resolving conflict, of communicating, of guiding and of evaluating; ethical consideration for leaders.	Junior or senior classification.
Agricultural Leadership and Development (ALED)	ALED 341. Team Learning.	Team development theory; emphasizes research on team member behaviors, team decision making models and positive conflict in team environments	ALED 340; junior or senior classification.
Agricultural Leadership and Development (ALED)	ALED 343. Human Resource Management in Agriculture and Life Sciences	Principles, theories, concepts, techniques and applications for managing human resources in food and agricultural organizations and in local communities; attracting, staffing, training, developing and compensating human talent.	ALED 340; junior or senior classification.
Agricultural Leadership and Development (ALED)	ALED 344. Leadership of Volunteers	Principles, theories, concepts, techniques and applications for leading volunteers in agriculture and life sciences nonprofit, governmental and community organizations. The study, understanding and solution of human-agricultural problems based on theory learned in the classroom, library, laboratory and fieldwork completed by individuals and teams.	ALED 340; junior or senior classification.
Agricultural Leadership and Development (ALED)	ALED 380. Workshop in Agricultural Leadership and Development	Major issues in the study of public leadership, development of leadership skills, and a field investigation done in conjunction with local public leaders.	Junior or senior classification
Agricultural Leadership and Development (ALED)	ALED 400. Public Leadership Development.	Selected topics on the diversity of human resources in agriculture; emphasis on working in a multicultural society and developing a sensitivity toward different cultures; explores the interrelationships between the contributions of diverse individuals and the state, nation and global success of agriculture.	Junior classification and approval of instructor. Cross-listed with CARC 400 and ENGR 400.
Agricultural Leadership and Development (ALED)	ALED 422. Cultural Pluralism in Agriculture	Geographic Information System (GIS) approach to the integration of spatial and attribute data to study the capture, analysis, manipulation and portrayal of natural resource data; examination of data types/formats; integration of GIS with remote sensing and Global Positioning System; lab use of GIS applications to conduct analyses of topics in natural resources.	Junior or senior classification
Agricultural Systems Management (AGSM)	AGSM 461. Geographic Information Systems for Resource Management.	Advanced topics in Geographic Information Systems (GIS) to solve natural resource problems; manipulation of raster data types; three-dimensional modeling; emphasis on geo-processing as it relates to applied projects particularly with habitat suitability models; field and lab use of global positioning systems (GPS); internet-based GIS modeling. Prerequisites	Junior or senior classification or approval of instructor. Cross-listed with FRSC 461 and SPSC 461.
Agricultural Systems Management (AGSM)	AGSM 462. Advanced Geographic Information Systems for Resource Management.	Principles underlying construction and maintenance practices for turf facilities including athletic fields, golf courses, parks and home lawns; aesthetic, safety and economic aspects of turf varieties, soil conditions, plant protectants and maintenance equipment	AGSM 461, FRSC 461, SPSC 461, GEOG 390 or LAND 461. Cross-listed with FRSC 462, GEOG 462, and SPSC 462.
Soil and Crop Sciences (SCSC)	SCSC 302. Recreational Turf	Description of physical environments in which living organisms reside; interaction and adaptation of plants, animals and humans to their physical environments; survival in extreme environments; creating livable artificial environments on earth and in space.	Biology or approval of instructor.
Soil and Crop Sciences (SCSC)	SCSC 314. Life and Physical Environment	Examination of how environmental stresses, genetics, and cultural management practices influence the growth, development, and physiology of turfgrasses; exploration of how turf communities function within urban landscapes; introduction to environmental, social, and political issues encountered when managing these areas. Development of turf management plans for large turfgrass sites including parks, golf courses and sports facilities; use of case studies to critically analyze turf management programs	Junior or senior classification
Soil and Crop Sciences (SCSC)	SCSC 428. Advanced Turf Ecology and Physiology		
Soil and Crop Sciences (SCSC)	SCSC 429. Turf Management Systems		SCSC 428

Soil and Crop Sciences (SCSC)	SCSC 430. Turfgrass Maintenance	Activities in a day-to-day turfgrass maintenance operation; decision-making in culture, equipment, irrigation systems, budgets, records and labor management. Laboratory includes principles and actual mechanical procedures involved in maintaining turfgrass	SCSC 428 or approval of instructor.*
Bioenvironmental Sciences (BESC)	BESC 367. U.S. Environmental Regulations	Investigation of the legal infrastructure of the U.S. associated with regulating environmental impacts; examination of major U.S. environmental statutes associated with air and water quality, toxic substances, waste and hazardous substance release, energy and natural resources; review the relationship between U.S. policy and international environmental regulations.	BESC 201 and junior or senior classification.
Forest Science (FRSC)	FRSC 101. Introduction to Forestry.	Survey of the field of forestry in the U.S.; history, resources, policies, organization, industries, employment, education and research	Laboratory periods to provide exposure to forestry and wood processing
Forest Science (FRSC)	FRSC 102. Introduction to Spatial Science	Provides students with an understanding of the spatial sciences, how they are applied for problem solving in a wide variety of fields, and what opportunities are available to professionals in the spatial sciences.	Cross-listed with GEOG 102 and SPSC 102.
Forest Science (FRSC)	FRSC 302. Fundamentals of Environmental Decision-Making.	Introduction to environmental issues in natural resources management; fundamental principles and methods for understanding biosocial interdependencies in complex environmental issues; use of computer-aided group decision-making techniques to develop cooperative strategies for resolving local or global environmental issues.	Junior classification or approval of instructor.*
Forest Science (FRSC)	FRSC 404. Forest Management.	Elements, criteria and methods of forest management; survey of current forest management issues; diagnosis and development of forest management plans under different ownership objectives; integration of the business and social aspects with the biophysical and technological aspects of forestry.	FRSC 300 and 314 or approval of instructor.*
Forest Science (FRSC)	FRSC 406. Forest Policy.	Forest policy development in the United States and review of current issues in forest and related natural resource policy.	Senior classification or approval of instructor.
Horticultural Sciences (HORT)	HORT 101. Concepts of Horticultural Science.	Introduction to the many facets of horticulture in Texas and the United States including organization, history and nature of the industry; discussion of professional development and identification of career opportunities.	
Horticultural Sciences (HORT)	HORT 201. (AGRI 1315, 1415, HORT 1301, 1401) Horticultural Science and Practices.	Structure, growth and development of horticultural plants from a practical and scientific approach; environmental effects, basic principles of propagation, greenhouse and outdoor production, nutrition, pruning and chemical control of growth, pest control and branches of horticulture.	
Rangeland Ecology and Management (RLEM)	RLEM 103 Introduction to Ecological Restoration	Introduction and overview of ecological restoration that addresses what ecological restoration is, why it is relevant, how it is applied and when it can be most effectively used; course readings and discussions will relate ecological restoration to a wide-range of potential applications, from small-scale disturbances to significant global environmental problems.	
Renewable Natural Resources (RENR)	RENR 205 Fundamentals of Ecology	Principles of ecology using a holistic approach treating plants, animals and humans as one integrated whole; composition, structure, nutrient cycles and energetics of biotic communities; adaptations to environmental factors; biotic relationships; and problems of environmental quality and resource use.	
Renewable Natural Resources (RENR)	RENR 215 Fundamentals of Ecology Laboratory	Sampling and estimating plant-animal populations, measuring environmental factors and recognizing and studying morphological, physiological and behavioral adaptations of plants and animals to biotic or abiotic influences.*	
Renewable Natural Resources (RENR)	RENR 375. Conservation of Natural Resources.	Principles and philosophies associated with the development, management and use of natural resources; ecological and social implications inherent in management alternatives involving the natural environment and use of renewable natural resources.	None
Renewable Natural Resources (RENR)	RENR 410. Ecosystem Management	Concepts and practices relevant to the development of landscape/regional level ecosystem management plans; an ecosystem management plan will be developed utilizing a strategic management/coordinated resources approach to establish resource goals, ecosystem resource analysis and impact evaluation, and implementation compatible with societal and individual concerns.	Senior classification or approval of instructor.*
Renewable Natural Resources (RENR)	RENR 420. Natural Resource Law.	Basic legal relationships and issues involved in the management, development and allocation of natural resources; includes federal, state and local statutes, administrative rules and judicial decisions; alternative dispute resolution theories and techniques.	None. Cross-listed with RPTS 420.

Renewable Natural Resources (RENR)	RENR 460. Development and Management of Protected Areas	Case studies illustrating social, political, and legal influences on the development and management of parks, refuges, wilderness, and other protected areas; interaction between protected-area management and tourism development in neighboring communities and regions; interpretation of social contexts. The evolution of natural resources regulatory policies and how this influences current procedures for environmental/natural resources assessment and management; demonstration of the environmental impact assessment procedures and policy issues associated with environmental impacts.	RPTS 307 or 316, or 9 hours of credit in natural resource courses. Cross-listed with RPTS 460.
Renewable Natural Resources (RENR)	RENR 470. Environmental Impact Assessment.	Using an ecosystem approach, this course analyzes changes in the North American environment; effects of these changes on wildlife populations; and reviews areas of major, current concern	Senior classification or approval of instructor.
Wildlife and Fisheries (WFSC)	WFSC 301. Wildlife and the Changing Environment.	A review and analysis of state and federal laws and international treaties and conventions affecting fish and wildlife; their application and administration; organizational structure of state, federal and international agencies; their objectives, policies and practices.	Junior or senior classification; restricted to non-majors.
Wildlife and Fisheries (WFSC)	WFSC 303. Fish and Wildlife Laws and Administration.	Ecological principles used to conserve and manage wildlife and fisheries resources at the individual, population and community levels; topics include conservation biology, species interactions, animal-habitat relationships, population dynamics and harvesting, habitat management and restoration and human dimensions of fish and wildlife conservation. Evolutionary ecology of reptiles and amphibians and conservation biology of the major groups; labs concentrate on the global diversity of herps and the herpetofauna of Texas;	Junior classification.
Wildlife and Fisheries (WFSC)	WFSC 304. (AGRI 2330) Wildlife and Fisheries Conservation.	Herpetology	RENR 205 and junior or senior classification or approval of instructor.*
Wildlife and Fisheries (WFSC)	WFSC 315. Herpetology	A phylogenetic survey of the invertebrate phyla including their taxonomy, morphology, life histories, ecology, ethology and zoogeography.	Prerequisites: WFSC 302 or approval of instructor; WFSC 302 or BIOL 318.*
Wildlife and Fisheries (WFSC)	WFSC 35. Natural History of the Invertebrates	Mammalian biology; evolution, classification, biogeography, reproduction, physiology, ecology, and behavior; focuses on basic concepts necessary for a foundation in both wildlife science and biology.	Field trips may be required for which departmental fees may be assessed to cover costs.
Wildlife and Fisheries (WFSC)	WFSC 401. General Mammalogy.	Introduction to study of birds, their structure, classification, geographic distribution, ecological relations and economic status; foundation of wildlife science, also for museum work.	Prerequisites: WFSC 302 or BIOL 318; junior classification.*
Wildlife and Fisheries (WFSC)	WFSC 402. General Ornithology	Concepts of animal ecology which emerge at various levels of organization; the ecosystem, the community, the population and the individual; laboratories emphasis on the quantitative analysis of field data and the simulation of population dynamics.	Prerequisites: WFSC 302 or BIOL 318; junior classification.
Wildlife and Fisheries (WFSC)	WFSC 403. Animal Ecology	Urban wildlife and fisheries trains students to establish and maintain diverse, self-sustaining urban wildlife and fish populations at levels in harmony with ecological, social, and economic values of the human community and to develop optimal levels of public appreciation and use of urban wildlife and fish resources and associated habitats	Prerequisites: WFSC 201 and RENR 205 or approval of instructor; junior classification.
Wildlife and Fisheries (WFSC)	405. Urban Wildlife and Fisheries	Designed to acquaint the student with major land use practices on lands that produce wildlife, how these influence wildlife production and alterations or manipulations of habitat used to achieve specific wildlife management goals.	WFSC 201; RENR 205 and 215; junior or senior classification. WFSC 201 and 403; WFSC 401 or 402; senior classification; wildlife and fisheries sciences major or approval of instructor; concurrent registration in WFSC 407 required
Wildlife and Fisheries (WFSC)	406. Conservation Biology and Wildlife Habitat Management	Field and laboratory studies of specific wildlife habitat management practices with special emphasis on those used in Texas; attendance required at four weekend field trips to study wildlife habitat operations	Concurrent registration in WFSC 406 required.*
Wildlife and Fisheries (WFSC)	407. Field Wildlife Habitat Management	Techniques available to directly and indirectly manipulate wild animal populations to achieve balance between socioeconomic and aesthetic values	Senior classification; WFSC 403 and 406 or registration therein or approval of instructor.*
Wildlife and Fisheries (WFSC)	408. Techniques of Wildlife Management	Introduction to the ecosystems that comprise the coastal zone with an emphasis on the role of freshwater inflows; open bay systems are the focus of lectures, but fringing habitats are also discussed; human components of the coastal zone are also discussed including industrial, commercial domestic, conservation and restoration issues.	Junior or senior classification.
Wildlife and Fisheries (WFSC)	WFSC 418. Ecology of the Coastal Zone.		

Wildlife and Fisheries (WFSC)	419. Wildlife Restoration	Study of the fundamentals of the restoration of animal populations and the resources they require; factors that control the distribution and abundances of animals in relation to restoration; and how restoration plans for wildlife are developed	RENR 205 or equivalent; junior or senior classification or approval of instructor; WFSC 406 and 407 and RLEM 320 preferred
Wildlife and Fisheries (WFSC)	420. Ecology and Society	Students study and compare human and natural ecosystems using diversity, interrelations, cycles, and energy as the conceptual organization; central themes of the course are sustainability, stewardship and science.	Junior or senior classification
Wildlife and Fisheries (WFSC)	WFSC 428. Wetland Ecosystem Management	Ecosystem approach to the ecology and management of wetlands; emphasis on factors controlling wetland structure and function, characteristics of different wetland types, and applied issues of wetland restoration, creation and delineation.	Junior or senior classification.*

## College of Architecture (CARC)

Department	Course Number & Name	Description	Prerequisites
Architecture (ARCH)	ARCH 212 Social and Behavioral Factors in Design	Social and behavioral factors in the built and natural environment, environmental perception and spatial cognition; social-environmental processes such as crowding;	
Architecture (ARCH)	ARCH 249 Survey of World Architecture History I	A survey of the history of western and non-western architecture and the human-design and built environment from the prehistoric to the 14th century	
Architecture (ARCH)	ARCH 250 Survey of World Architecture History II	A survey of the history of western and non-western architecture and the human-design and built environment from the 14th century to present	
Architecture (ARCH)	ARCH 329 American House	Domestic architecture in America	ARCH 250
Architecture (ARCH)	ARCH 350 History and Theory of Modern and Contemporary Architecture	Development of modern and contemporary architecture in the 20th and 21st centuries; materials, structure, social and economic changes as well as architectural theory.	ARCH 249, 250 or ENDS 149
Architecture (ARCH)	ARCH 421 Energy Conservation in Residential Architecture	Analyze energy use for sustainability in architecture; energy and Leadership in Energy and Environmental Design (LEED) audits, computer simulations of design impact using solar, low-energy and passive energy; include LEED rating analysis. Theory and practice of lighting design as an art and science; aperture design for sunlight control; selecting and locating luminaries to enhance interior and exterior surfaces and spaces	ENDS 233, with ARCH 334 preferred
Architecture (ARCH)	ARCH 433 Architectural Lighting	Interrelationships of architecture, sculpture and stained glass, technology and construction, function and form, society and patronage in the great period of medieval building	Junior or senior classification
Architecture (ARCH)	ARCH 437 Great Medieval Cathedrals		Junior or senior classification or approval of degree coordinator
Architecture (ARCH)	ARCH 440 History of Renaissance Architecture	Renaissance architecture in Europe and America	Renaissance architecture in Europe and America
Architecture (ARCH)	ARCH 441 Baroque and Rococo Architecture	The investigation of the history of architecture, the arts and society, and major creative individuals from the late sixteenth to the early eighteenth centuries	ENDS 150 or ARTS 150 or approval of degree coordinator
Architecture (ARCH)	ARCH 442 Art and Architecture of Islam	An introduction to the art and architecture of the Mediterranean, Near Eastern and Central/South Asian territories under Muslim rule prior to circa 1700 CE	ENDS 149 and ARTS 149; approval of instructor
Architecture (ARCH)	ARCH 446. Introduction to Historic Preservation	The cross-disciplinary world of historic preservation examining the significance of historic places to societal well-being and conservation alternatives for historic and cultural environments; review of preservation projects including interior rehabilitation and adaptive reuse; introduction to careers in preservation through guest presentations and case studies.	Junior or senior classification.
College of Architecture (CARC)	CARC 331. Field Studies in Design Philosophy	Design philosophy in international and domestic environments away from the Texas A&M University campus; emphasis on the historical, philosophical, cultural, social and economic factors that influence design solutions	
College of Architecture (CARC)	CARC 335. Field Studies in Interdisciplinary Design Theory	Introduction to interdisciplinary design theory in an international environment for students in design-related fields; analysis of buildings, sketching techniques, architectural history, and relationship of culture to design; discussion of fundamental design processes, issues and theories relevant to design problem resolution.	Junior or senior classification or approval of instructor.
Environmental design (ENDS)	ENDS 101 Design Process	Fundamental design processes, issues and theories relevant to design resolution and the creation of new ideas; creative thought processes from the formation of ideas through incubation to final product and future impact on the physical environment and society.	
Environmental design (ENDS)	ENDS 115 Design Communication Foundations	Introduction to and practice of tools, methods, techniques available for graphic communication; graphic communication and the design process; observation and other forms of free-hand drawing and drawing systems that develop the student's representational and descriptive capabilities.	

Environmental design (ENDS)	ENDS 170 Computer Techniques for Design and Visualizat	Introduction to the history of computing; fundamentals of computer applications for visualization, design, planning and construction; review of applications for management, network publishing, vector editing, modeling, rendering, animation, multimedia/hypermedia presentations and the development of virtual environments.	Basic computer literacy
Environmental design (ENDS)	ENDS 374. Multimedia Design and Development	Design and development of large scale multimedia projects; principles of user interactivity and navigation; integration of 2D and 3D display technologies; audio capture and editing; computer based presentations; kiosk design	Junior or senior classification.
Environmental design (ENDS)	ENDS 370 Virtual Architecture	Introduction to VRML and X3D used in the creation of realtime 3D environments; definition of formal scene description structures; modeling and transformation techniques; behaviors and message passing; user interaction and animation; inclusion of diverse media; scripting; relationship to HTML.	Prerequisites: ENDS 170 or approval of instructor and degree coordinator.
Environmental design (ENDS)	ENDS 374 Multimedia Design and Development	Design and development of large scale multimedia projects; principles of user interactivity and navigation; integration of 2D and 3D display technologies; audio capture and editing; computer based presentations; kiosk design.	Junior or senior classification.
Environmental design (ENDS)	ENDS 470 Digital Rendering	Creation of photorealistic images related to the field of architecture; understanding of important perceptual and physical principles that form the foundation for creating realistic images; outdoor and indoor lighting, environmental effects, properties of materials, rendering models and techniques for adding visual detail.	ENDS 211; senior classification
Environmental design (ENDS)	ENDS 474 Design for the Web	Visual presentations on the web using web standards design; foundations of web technologies; web page and site creation; design typography for the web; controlling the page real estate through cascading style sheets (CSS); imaging for the web; the creation and use of color and graphics.	Junior or senior classification
Landscape Architecture (LAND)	LAND 310 Landscape Theory	Relevant theoretical discourse in landscape architecture and urban planning; urban theory, social and cultural theory; environmental philosophy and environmental aesthetics	Junior classification or approval of instructor
Landscape Architecture (LAND)	LAND 340 Development of Landscape Architecture in North America	The interaction between people and the land in North America from pre-European settlement to the present; trends and settlement patterns, resource exploitation, relationships of cultural, social, technological and political factors to land use, and on the growth and current roles of the profession of landscape architecture	Sophomore classification
Department of Landscape Architecture and Urban Planning (LDEV)	LDEV 467. Land Development.	Financially feasible, environmentally sustainable, project design/construction/finance processes; resolution of site and environmental issues with market and financial considerations; design concepts for value enhancement of land, residential, commercial and retail development.	Junior or senior classification or approval of instructor
Urban Planning (PLAN)	PLAN 356 Housing and Community	Housing, its development, planning, marketing, designing, financing and production; social and design history and contemporary issues of American housing development, urban renewal, neighborhood structure and community facilities	Junior or senior classification
Urban Planning (PLAN)	PLAN 360 Introduction to the Urban Planning Function	Past influences and current practice of planning in the United States; issues which impact on the comprehensive planning process; different approaches to planning and plan formulation in the context of private, governmental and institutional settings.	Junior or senior classification or approval of instructor
Urban Planning (PLAN)	PLAN 414 Sustainable Communities	Focuses on sustainable community with applications in public policy/design including societal organization, disciplinary bound design and policy, and empowered approaches to design, social ecology and public policy; reading and review of relevant literature on sustainability, complemented with exercises to illustrate underlying principles.	Junior or senior classification or approval of instructor



Urban Planning (PLAN)	PLAN 415 Urban Issues	Issues pertaining to the evolution and development of cities and urban regions; examines the socio-economic, cultural and physical development of urban areas; addresses contemporary problems such as racial tension, unemployment and poverty, housing, pollution and environmental sustainability, traffic and congestion, land use, crime, public health, and other quality of life issues.	Junior or senior classification or approval of instructor.
Urban & Regional Science (URSC)	URSC 330. Land Development I.	Interface between the physical and financial dimensions in design and development to achieve building and project economies; creating a physical product and a financial venture that are responsive to social and environmental concerns and to market economy and finance	Junior or senior classification or approval of instructor.
Urban & Regional Science (URSC)	URSC 340. Housing and Community	Housing, its development, planning, marketing, designing, financing and production; social and design history and contemporary issues of American housing development, urban renewal, neighborhood structure and community facilities	Junior or senior classification.
Urban & Regional Science (URSC)	URSC 360. Issues in Environmental Quality	Issues in environmental quality; focus on stormwater and ecosystem qualities influenced by land development; design and planning principles and techniques (e.g. low impact development) for sustainable stormwater management in urban and suburban watersheds.	: Junior or senior classification or approval of instructor
Urban & Regional Science (URSC)	URSC 330. Land Development I.	Interface between the physical and financial dimensions in design and development to achieve building and project economies; creating a physical product and a financial venture that are responsive to social and environmental concerns and to market economy and finance	
Urban & Regional Science (URSC)	URSC 401. Policy Implementation	Techniques of implementing major urban development programs and plans; capital improvements programming and budgeting; overview of regulatory measures including zoning and subdivision regulations; public involvement process; and fiscal planning.	Prerequisite: Upper division College of Architecture or approval of instructor
Urban & Regional Science (URSC)	URSC 440. Urban and Regional Economic Development.	Examines economic development processes in urban and regional planning; issues explored include theoretical, the economic development planning process, ethics, location factors, intergovernmental relations, budgeting, and private sector revenue generation. Prerequisite:	Junior or senior classification or approval of instructor
Urban & Regional Science (URSC)	URSC 461. Urban Issues.	Issues pertaining to the evolution and development of cities and urban regions; examines the socio-economic, cultural and physical development of urban areas; addresses contemporary problems such as racial tension, unemployment and poverty, housing, pollution and environmental sustainability, traffic and congestion, land use, crime, public health, and other quality of life issues	Junior or senior classification or approval of instructor
Urban & Regional Science (URSC)	URSC 471. Planning Healthier Communities	Planning for the creation of healthier cities/communities; emphasis on the impact of global paradigmatic shifts regarding community health, stakeholder participation, coalition building, leadership, visioning the planning process, and the need for more systemic and process orientation in community building.	Junior or senior classification or approval of instructor.
Visualization (VIST)	VIST 105 Principles of Design I	Survey of principles and theory of design and visual communication; elements and organizational structure of the visual language; sign, symbol, and meaning; visual perception; problem solving and the creative process; design in terms of value as well as color; emphasis on two-dimensional design.*	
Visualization (VIST)	VIST 106 Principles of Design II	Fundamentals of spatial design; theory of form; transformations, additive/subtractive techniques as process; 3D composition; traditional modeling and construction techniques; formal visual analysis and critique.	VIST 105.*

## College of Geosciences

Department	Course Number & Name	Description	Prerequisites
Geography (GEOG)	GEOG 201. Introduction to Human Geography.	A survey of the major systems of man-land relations of the world and their dissimilar developments; the processes of innovation, diffusion and adaptation stressed with regard to changing relationships between people and their environment.	None
Geography (GEOG)	GEOG 202. (GEOG 1303) Geography of the Global Village.	Uses of resources; identification of problems pertaining to poverty, hunger, overpopulation, relations between nations and races, environmental destruction and violence within the major geographic regions of the world.	None
Geography (GEOG)	GEOG 301. Geography of the United States.	Geographic personality (physical and cultural) of the United States.	None
Geography (GEOG)	GEOG 304. Economic Geography	Location of economic activities over the earth; distribution of agriculture, manufacturing, tertiary activities and transportation.	None
Geography (GEOG)	GEOG 305. Geography of Texas	Exploration into the geographic personality of Texas: past and current physical and biotic environments; cultural pluralism, including ethnic origins and distinctive human ecologies; and the social, economic and political sources of environmental problems.	None
Geography (GEOG)	GEOG 306. Introduction to Urban Geography.	Reasons humankind tends to congregate in cities. Overview of patterns in the geographic distribution of cities, and in the geographic distribution of peoples and activities within cities, and the dynamics of these distributions.	None
Geography (GEOG)	GEOG 311. Cultural Geography.	Human factors which affect man-land relationship; concept of culture, culture areas; population growth and migrations, types of economic activity, urban and transportation geography.	None
Geography (GEOG)	GEOG 320. The Middle East.	Regional geography of the Middle East; physical setting and the historical evolution of Middle Eastern landscapes; current issues.	GEOG 201 or 202 or 203 or equivalent; approval of instructor.
Geography (GEOG)	GEOG 321. Geography of Africa.	Systematic approach to the geography of Africa: physical factors; cultural types; economic patterns; current problems.	None
Geography (GEOG)	GEOG 323. Geography of Latin America.	Physical and cultural characteristics of Latin America; physical landscape, cultural succession and the present cultural landscape; details on sub-regions	None
Geography (GEOG)	GEOG 325. Geography of Europe.	Regional geography of European landmass; global, political and cultural characteristics of European geography in historical and ecological contexts.	Junior or senior classification.
Geography (GEOG)	GEOG 326. Geography of East Asia.	Overview of East Asia from physical, social, economic and cultural perspectives; discussions on the roles of East Asia in world affairs and their bilateral ties with the U.S.	Junior or senior classification.
Geography (GEOG)	GEOG 330. Resources and the Environment.	Changing demand for land and sea resources; international conditions of population growth, resource depletion and geopolitical control; resource perceptions and decision-making.	None
Geography (GEOG)	GEOG 360. Natural Hazards.	Introduction to the types and causes of natural events that pose risk to society: an examination of prevailing concepts and theories of human response and vulnerability; characteristics of natural events, natural hazard paradigms; case studies.	GEOG 203 or GEOL 101; junior or senior classification
Geography (GEOG)	GEOG 370. Coastal Processes.	Introduction to the coastal system, waves and wave dominated coasts, shoreline morphodynamics, tidal and lake coasts, long term coastal development, sea level changes, subtidal and beach ecosystems, coastal dunes and wetlands, structures and organizations, coastal management and coastal hazards.	None
Geography (GEOG)	GEOG 390. Principles of Geographic Information Systems.	Basic concepts of design, planning and implementation of geographic information systems.	Junior or senior classification.
Geography (GEOG)	GEOG 401. Political Geography.	The political process at a variety of geographic scales: international, intranational and urban; origins of territorial organization and conflicts over access to and use of space and its resources.	None

Geography (GEOG)	GEOG 402. Interpretation of Cultural Landscapes	Cultural context of landscapes in a variety of geographic settings; origins of landscape traditions; folk and popular cultural landscapes; townscape analysis and learning to read landscapes as evidence of cultural conditions.	None
Geography (GEOG)	GEOG 403. Historical Geography.	Historical geography themes: demography, economic structure and social structure; patterns of migration and forms of settlement; use of historical geographic archives and materials; local field trips.	Junior or senior classification.
Geography (GEOG)	GEOG 404. Spatial Thinking, Perception and Behavior.	Spatial thinking, spatial perception of the environment and the ways thinking and perception influence spatial behavior; role of geospatial technologies in supporting spatial thinking; models of spatial thinking acquisition; cognitive maps and spatial decision making; developing spatial thinking and individual differences.	Junior or senior classification.
Geography (GEOG)	GEOG 406. Geographic Perspectives on Contemporary Urban Issues	Contemporary readings on spatial patterns and processes in urban environments; sprawl; human-environment interaction; housing; development and growth; concept of place; scale; power and policy.	GEOG 304 or 306 or equivalent
Geography (GEOG)	GEOG 420. Geography of Terrorism	Exploration of global terrorism and counter terrorism; regional conflicts and mass violence; construction of places and regions associated with terror; American reactions to global terrorism.	Junior or senior classification.
Geography (GEOG)	GEOG 430. Environmental Justice	Exploration into the spatial variability and human geography of exposure to environmental hazards in U.S. and international contexts; emphasizes environmental equity and environmental racism as it relates to occupational, leisure and residential geography. Meets writing-intensive course requirements for environmental geosciences, environmental studies and geography majors.	GEOG 201 or 202; junior or senior classification
Geography (GEOG)	GEOG 433. Geography of Communication.	Exploration of the intersection between geography and communication theory; spatial characteristics of communication systems; place representations in the media; social problems of uneven access to information.	GEOG 201
Geography (GEOG)	GEOG 440. History and Nature of Geography.	Summary of classical knowledge of world; development of thought on nature of geography from 1800 to present.	Junior or senior classification.
Geography (GEOG)	GEOG 475. Advanced Topics in GIS	Topics related to GIS implementation, spatial database design, spatial data analysis, and various advanced GIS applications.	GEOG 390 or equivalent
Geoscience (GEOS)	GEOS 210. Climate Change.	Examination of the science of climate change; how greenhouse gases warm the planet; scientific evidence that the earth is warming; scientific evidence that humans are causing this warming; what warming we can expect in the future and impacts of that warming.	None

## College of Liberal Arts

Department	Course Number & Name	Description	Prerequisites
Africana Studies	AFCS 201: Introduction to Africana Studies	Introduction to the field of Africana Studies: interdisciplinary approach drawing from history, philosophy, sociology, political studies, literature and performance studies; explores the African foundational relationship to and connections with its diaspora populations; covers Africa, the United States, the Caribbean, Europe and South America.	None
American Studies (AMST)	AMST 340. Region and Place.	Explores the mythic functions of various settings and practices in America and/or the United States; representations of the landscape and regional sensibilities; various media, such as literature, paintings, photography, film and music examined.	AMST 300 or approval of instructor; junior or senior classification.
Anthropology (ANTH)	ANTH 202. (ANTH 2302) Introduction to Archaeology.	An introduction to the study of the human past through the retrieval, analysis and interpretation of material remains.	None
Anthropology (ANTH)	ANTH 205. Peoples and Cultures of the World.	Survey of human cultures around the world using case studies of customs and cultural organization; case studies exemplifying contrasting types of cultures and societies.	None
Anthropology (ANTH)	ANTH 210. (ANTH 2351) Social and Cultural Anthropology.	Evolution of cultures; differences, similarities and effects of material and non-material culture on economic, social and political organization.	None
Anthropology (ANTH)	ANTH 225. Biological Anthropology	Human biology to include examination of evolutionary processes acting on human populations; human genetics; non-human primate anatomy, classification and ecology of primates; the primate paleontological record, and human variation and adaptation.	None
Anthropology (ANTH)	ANTH 229. Introduction to Folklore	Study of folklore through selected examples of traditional cultures, their beliefs, customs and art forms such as: tales, folksongs, proverbs, riddles and material culture.	None
Anthropology (ANTH)	ANTH 300. Cultural Change and Development.	Anthropological strategies for the study of cultural change and the implication of these strategies for the development of Western and non-Western societies.	None
Anthropology (ANTH)	ANTH 315. Peoples and Cultures of Africa.	African cultures and prehistory prior to extensive acculturation and problems facing contemporary African cultures.	None
Anthropology (ANTH)	ANTH 325. Texas Cultural History	The image of Texas history, tradition and popular culture from the 19th century to the present.	HIST 226 or ANTH 201, 210 or 229. Cross-listed with HIST 325.
Anthropology (ANTH)	ANTH 335. Cultures of Central Asia.	Study of anthropological research in Central Asia: ecological adaptations; colonialism and post-colonialism; ethnic politics and ethnic conflict; religion and identity; gender and family; globalization and modernization.	Junior or senior classification.
Anthropology (ANTH)	ANTH 403 Anthropology of Religion	Anthropological approach to religion and to the relationship between religion, economics, politics and social structure with particular reference to non-Western, preindustrial societies	Cross-listed with RELS 403
Anthropology (ANTH)	ANTH 410. Anthropological Theory	A systematic examination of the basic principles of anthropology	ANTH 210
Anthropology (ANTH)	ANTH 415. Anthropological Writing.	Reading and discussion of the classic genres of anthropological literature; instruction in writing styles and techniques appropriate to each genre, followed by guided writing assignments	Junior or senior classification.
Anthropology (ANTH)	ANTH 421. Museums and Their Functions	Role of museums, those specializing in natural history and the extent to which they serve the community, state, nation, and the advancement of the sciences included in their programs; history, operations, methods and programs.	Junior or senior classification. Cross-listed with WFSC 421.
Anthropology (ANTH)	ANTH 430. Applied Anthropology	Theory, ethics and practical applications of anthropological methods and concepts as they relate to planned programs of sociocultural change	ANTH 210; junior or senior classification.
Arabic	ARAB 221. Introduction to Arabic Language and Society.	Examination of critical linguistic issues in the Arab world from a sociolinguistic perspective, including language and religion; language and power; language and nationalism; and language and education.	Approval of instructor.
Art (ARTS)	ARTS 149 Art History Survey I	Survey of architecture, painting, sculpture and the minor arts from prehistoric times to 14th century	
Art (ARTS)	ARTS 150 Art History Survey II	Survey of architecture, painting, sculpture and the minor arts from the 14th century to the end of the 19th century	

Art (ARTS)	ARTS 203 Graphic Design I	Introduction to graphic design visual principles; composition and their application for printed and digital media	ARTS 103 and 111
Art (ARTS)	ARTS 304 Graphic Design II	Continuation of ARTS 203; concepts in advanced graphics as a tool for design solutions for publication and promotion; emphasis on creative thinking over technology Creation, manipulation, and critique of the digital image; composition and aesthetics; digital camera controls; exposure refinement; lighting techniques; digital work-flow; image conversion and control; color management; post-processing techniques; layering and compositing; printing technology and processes	ARTS 203; junior or senior classification
Art (ARTS)	ARTS 310. Digital Photography	Advanced photographic image-making; development, control and presentation of the expressive photographic image; expression and criticism	Junior or senior classification
Art (ARTS)	ARTS 312. Advanced Photography	The development of visual arts in Texas; an examination of art movements, artists and major works exhibiting a broad range of artistic techniques.	ARTS 310 or 311
Art (ARTS)	ARTS 329 Texas Art History	urvey of painting, sculpture, crafts and architecture of prehistoric America to the present; emphasis on art as a record of cultural, economic and social evolution	Junior or senior classification or approval of degree coordinator
Art (ARTS)	ARTS 330 The Arts of America	Chronological development of late 19th through 20th century art; emphasis on key artists, paintings, sculpture, photography and architecture	Junior or senior classification or approval of degree coordinator
Art (ARTS)	ARTS 349 The History of Modern Art	Investigation of the image of work of selected periods in terms of criticism, aesthetic rationale, specific masters and social significance by going beyond historical chronology	Junior or senior classification or approval of degree coordinator
Art (ARTS)	ARTS 350 The Arts and Civilization	Major trends and current topics in social and demographic aspects of the society of modern China, including Taiwan.	Junior or senior classification. Cross-listed with SOCI 306.
Asian Studies (ASIA)	ASIA 306. Society and Population of Modern China.	heoretical models of Asian cultures and practical protocol/etiquette related to business and work in China, Thailand, South Korea, Japan, Australia, and other Pacific Rim nations; discussions of national character, managerial behavior and values.	Junior or senior classification. Cross-listed with SOCI 329
Asian Studies (ASIA)	ASIA 329. Pacific Rim Business Behavior	Impact of the West on traditional China and Japan; the response through modernization; rise of nationalism and formation of modern nation states	Prerequisite: Junior or senior classification. Cross-listed with HIST 352
Asian Studies (ASIA)	ASIA 352. Modern East Asia	Survey of communication topics, research, and contexts of communicative practice; overview of communication from both humanities and social science perspectives	None
Communications (COMM)	COMM101. (SPCH 1311) Introduction to Communication	Training in speeches of social and technical interest designed to teach students to develop and illustrate ideas and information and to inform, stimulate, and persuade their audiences.	None
Communications (COMM)	COMM 203. (SPCH 1315) Public Speaking.	Design and presentation of oral reports for technical professions; incorporation of visual and graphic materials into presentation required; written reports required.	COMM 104
Communications (COMM)	COMM 205. Communication for Technical Professions.	Definition, structure, and functions of groups; group productivity, codes in verbal and nonverbal communication; problem-solving, role-playing, decision-making; leadership and organization; interview principles and techniques.	None
Communications (COMM)	COMM 210. Group Communication and Discussion.	Theory and practice of methods in selected interview settings; emphasis on communication between two persons, questioning techniques, and the logical and psychological bases of interpersonal persuasion.	None
Communications (COMM)	COMM 215. Interviewing: Principles and Practice.	Principles of argumentation and skills of debate, including reasoning, evidence, refutation, and briefing.	None
Communications (COMM)	COMM 243. (SPCH 2335) Argumentation and Debate	Principles and practice of the analysis of speeches and other forms of public discourse; compares systems of rhetorical criticism, such as neo-classical analysis, mythic analysis, rhetorical genres and close textual analysis.	None
Communications (COMM)	COMM 240. Rhetorical Criticism.		

Communications (COMM)	COMM 305. Theories of Communication	Theoretical approaches to human communication, including selected theories of language behavior, interpersonal and small group interaction, and persuasion.	Any lower-division communication course, or junior classification, or approval of instructor
Communications (COMM)	COMM 307. Mass Communication, Law, and Society.	Mass media as social institutions; social responsibility and ethics of the press; history, constitutional development, and law of the First Amendment	Any lower-division communication course, or junior classification, or approval of instructor. Cross-listed with JOUR 301.
Communications (COMM)	COMM 308. Research Methods in Communication.	Survey of methods used in communication research including quantitative, interpretive and rhetorical methods; formulating research questions, determining the appropriate method, planning and designing the research, data collection, and data analysis and interpretation	Any lower-division communication course, or junior classification, or approval of instructor
Communications (COMM)	COMM 315. Interpersonal Communication	Speech interaction in person-to-person settings; concepts of perception, attraction, self-disclosure, listening, and conflict management through communication; speech interaction patterns and stages in the development of interpersonal communication.	None
Communications (COMM)	COMM 320. Organizational Communication	Speech communication behavior and networks within organizations; recent research on speech communication systems, communication climate, and communication barriers in organizational settings.	None
Communications (COMM)	COMM 325. Persuasion.	Theory of effective persuasive communication in interpersonal, small group, and public settings; audience analysis, ethics of persuasion, motivational factors, psychological and rhetorical principles, source credibility, and theories of attitude change.	None
Communications (COMM)	COMM 330. Technology and Human Communication	Nontechnical survey of how modern technologies influence human communication including an introduction to communication technologies; the influence of technology on interpersonal communication, group decision-making and public communication; an analysis of argumentation and persuasion in technological issues	None
Communications (COMM)	COMM 335. Intercultural Communication.	Communication variables in intercultural contexts including culture and meaning, nonverbal styles across cultures, patterns of symbolic transfer, culture shock and communication, values in intercultural dialogue.	Any lower-division communication course, or junior classification, or approval of instructor.
Communications (COMM)	COMM 340. Communication and Popular Culture	Survey of theories and concepts of popular culture; dynamic relationships between pop culture and television, film, sports, politics and leisure.	Any lower-division communication course, or junior classification, or approval of instructor
Communications (COMM)	COMM 345. Media Industries	Survey of the business organization, economic structures and processes, and regulations of the media industry.	Any lower-division communication course, or junior classification, or approval of instructor
Communications (COMM)	COMM 350. Theories of Mediated Communication	Survey of different theories of mediated communication processes and effects; functions of theories in social scientific research on media and mediated processes	Any lower-division communication course, or junior classification, or approval of instructor.
Communications (COMM)	COMM 360. Cultural History of the Media.	Origins and development of the mass media; their influence on social, political, and cultural change; history of mass communication from historical, sociological, and cultural perspectives	Any lower-division communication course, or junior classification, or approval of instructor.
Communications (COMM)	COMM 365. International Communication.	Mass media, international, and cross-cultural audiences; theoretical, pragmatic, political and ethical issues; including cultural differences, comparative media systems, development communication, patterns of world news flow, political propaganda, impact of international advertising and other issues.	Any lower-division communication course, or junior classification, or approval of instructor.

Communications (COMM)	COMM 375. Media Audiences	Media audiences; research and theory; processes and effects of mass communication; audience members' uses and interpretations of media; topics including political media, news, and entertainment, health and information campaigns, children and other special audiences.	Any lower-division communication course, or junior classification, or approval of instructor
Communications (COMM)	COMM 407 Women, Minorities and the Mass Media	The contributions of women and ethnic groups to the evolution of the media; the portrayal of women and ethnic groups in the mass media; issues resulting from the recognition of women and ethnic groups as media audiences	Junior classification or approval of instructor
Communications (COMM)	COMM 420. Gender and Communication	Survey of the role of gender in communication processes; focus on communication differences between men and women in contexts such as the family, school and work organizations; discussion of media influence in gender stereotypes	
Communications (COMM)	COMM 443. Communication and Conflict	Communication principles for addressing conflict situations through such practices as negotiation, mediation and arbitration: the study of strategies, influence and language in conflict management approaches	Any lower-division communication course, or junior classification, or approval of instructor
Communications (COMM)	COMM 446. Communication, Organizations and Society	Communicative processes through which organizations influence and are influenced by the societies from which they draw their members.	Any lower-division communication course, or junior classification, or approval of instructor.
Communications (COMM)	COMM 447. Communication, Group Processes and Collaboration.	Communication processes in teamwork including collaboration in dyads, teams, and group processes that contribute to or detract from team effectiveness.	COMM 210; junior or senior classification.
Communications (COMM)	COMM 450. Media Campaigns	Principles of designing media campaigns as applied to commercial advertising, political advertising and health campaigns; processes that drive the planning and execution of these campaigns.	Any lower-division communication course, or junior classification, or approval of instructor.
Communications (COMM)	COMM 458. Global Media.	The study of globalization through media ownership. Content, flow, cultural values, political power and technological impact; implications of globalization for local economies and audiences.	Any lower-division communication course, or junior classification, or approval of instructor.
Economics (ECON)	ECON 202. (ECON 2302) Principles of Economics	Elementary principles of economics; the economic problem and the price system; theory of demand, theory of production and the firm, theory of supply; the interaction of demand and supply.	None
Economics (ECON)	ECON 203. (ECON 2301) Principles of Economics.	Measurement and determination of national income, employment and price; introduction to monetary and fiscal policy analysis; the effects of government deficits and debt, exchange rates and trade balances.	ECON 202 or approval of undergraduate advisor.
Economics (ECON)	ECON 311. Money and Banking.	Fundamental principles of money, credit and banking; arbitrage conditions in domestic and international capital markets; theoretical and institutional analysis of money markets.	ECON 203.
Economics (ECON)	ECON 312. Poverty, Inequality and Social Policy	Determinants of inequality in market earnings; philosophical and economic reasons for redistributing income; issues in measurement of inequality and poverty; examination of major social insurance and welfare programs and how they affect income distribution and performance of the economy.	ECON 323 or concurrent enrollment 6 hours drawn from the following:
Economics (ECON)	ECON 318. The Economics of Gender and Race.	Theories and evidence on gender and race differences in labor market outcomes; labor supply and the role of family formation; the effect of human capital and discrimination on earnings; analysis of government policies; international comparisons	ECON 202, STAT 303, 3 hours in WMST above 200 level; junior or senior classification. Cross-listed with WMST 318.
Economics (ECON)	ECON 319. Economic Development of the United States	Economic development of United States from colonial times to present.	ECON 202 and 203
Economics (ECON)	ECON 320. Economic Development of Europe.	Development of wage system expansion of markets, Industrial Revolution, relation of industrial development to political policy	ECON 202 and 203

Economics (ECON)	ECON 323. Microeconomic Theory	Determination of prices and their role in directing consumption, production and distribution under both competitive and non-competitive market situations.	ECON 202; MATH 142.
Economics (ECON)	ECON 324. Comparative Economic Systems.	Foundations of the market economy, market socialism, and economic planning; comparative performance of these alternative institutional arrangements; economies in transition.	ECON 202 and 203
Economics (ECON)	ECON 330. Economic Development	A study of the less developed world; economic problems and solutions.	ECON 202 and 203.
Economics (ECON)	ECON 410. Macroeconomic Theory.	Theory of the determination of aggregate levels of national income, employment and prices; monetary and fiscal policy analysis, effects of government debt and deficits	ECON 203.
Economics (ECON)	ECON 412. Public Finance	Economic role of governments; the choice of public sector output in a democracy and the effects of various taxes on resource allocation and income distribution.	ECON 323.
Economics (ECON)	ECON 415. History of Economic Thought	Survey of main strands of economic thinking from medieval times through the 20th century; classical, socialist, neoclassical and modern thinkers and the doctrine of the eras.	ECON 323.
Economics (ECON)	ECON 418. Economics of Labor	Economics of the labor market: factors affecting the economy's demand for labor and the supply of labor; labor market problems such as unemployment and poverty; the economics of trade unions and collective bargaining	ECON 323.
Economics (ECON)	ECON 420. Law and Economics	Mutual interaction of the prevailing legal system and economic phenomena; development of a series of testable hypotheses concerning the effects of laws and regulations on incentives and economic behavior, the allocation of resources and the distribution of income	ECON 323.
Economics (ECON)	ECON 425. The Organization of Industry	Relationships between structure, conduct and performance of industries in the American economy using both theoretical and empirical material; antitrust regulation, pricing, product characteristics, advertising, technical change and environmental effects; the American experience contrasted with that of other countries; growth of international industries.	ECON 323.
Economics (ECON)	ECON 426. Economics of Antitrust and Regulation.	Bureaucratic and judicial impact of antitrust laws and other regulatory means on the American economy; efficiency gains and losses associated with price discrimination, predation, cartelization, horizontal merger, vertical integration, resale price maintenance; Supreme Court opinions delivered in landmark antitrust cases	ECON 323.
Economics (ECON)	ECON 435. Economics of Resource Scarcity.	Natural resource management and use; problems of renewable and non-renewable resources including scarcity and market responses, role of property rights, externalities, benefit-cost analysis and energy policy	ECON 323.
Economics (ECON)	ECON 440. Experimental Economics.	Experimental techniques in economics and survey of literature in experimental economics; credibility of experimental data and criteria for determining reliability; application of statistical treatment to experimental data.	ECON 323.
Economics (ECON)	ECON 442. Personnel Economics	Exploration of the economics of incentives and information through the employment relationship; motivation of workers through incentive pay, promotion tournaments and threats; ways to avoid adverse selection in the hiring process; attracting and retaining employees; downsizing.	ECON 323.
Economics (ECON)	ECON 445. Financial Economics.	Economic analysis of money and financial markets; market structures, efficiency, institutional features; international markets; arbitrage; derivative securities; asset pricing in complete and incomplete markets; relation to rest of economy.	ECON 323; STAT 211 or 303; junior or senior classification.



Economics (ECON)	ECON 449. Economics of Decision-Making Strategy	Introduction to principles of decision-making and analysis of strategic interaction; formal modeling of decision problems involving one or more agents, integrating preferences, risk, and uncertainty into analysis, and using principles of game theory to advise choices; applications include search, signaling, design of contracts, agendas and repeated interaction	ECON 323; junior or senior classification
Economics (ECON)	ECON 452. International Trade Theory and Policy.	Basis for trade; theory of comparative advantage; determination of product and factor prices; gains from international trade; commercial policy and its implications for income distribution; concept of effective protection; market distortions, policy generated distortions and the arguments for tariffs.	ECON 323.
Economics (ECON)	ECON 459. Games and Economic Behavior	Introduction to game theory for advanced undergraduates; definition and existence of an equilibrium point for strategic, repeated and extensive form games; strategic and evolutionary equilibrium refinements; equilibrium selection; applications include auctions, bargaining, oligopoly, strategic market games, team production, voting and behavioral game theory	ECON 323; MATH 142 or equivalent or approval of instructor.
Economics (ECON)	ECON 460. Introduction to Mathematical Economics.	Introduction to mathematical economics; application of mathematical tools in economic theory; fundamental results from differential and integral calculus; duality theory in consumer and producer theory; classical optimization techniques, elementary differential equations and stability analysis.	ECON 323 and 410; MATH 131 or 142; junior or senior classification.
English (ENGL)	ENGL 104. (ENGL 1301) Composition and Rhetoric.	Focus on referential and persuasive researched essays through the development of analytical reading ability, critical thinking and library research skills	U1 and U2 students only.
English (ENGL)	ENGL 203. (ENGL 1302) Introduction to Literature	Exploration of literature by genre and/or theme; literary analysis and interpretation; intensive writing about literature	ENGL 104
English (ENGL)	ENGL 210. (ENGL 2311) Scientific and Technical Writing	Principles of composition, rhetoric, and document design applied to the basic genres of research-based scientific and technical writing, including the report, proposal, manual, resume and professional correspondence.	ENGL 104.
English (ENGL)	ENGL 227. (ENGL 2327) American Literature: Colonial to American Renaissance	Literature of the Puritans, revolutionaries, literary nationalists and romanticists; the artist in a frontier society and the development of a native literature; includes such writers as Bradstreet, Edwards, Poe, Hawthorne, Melville, Thoreau, Emerson and Whitman.	ENGL 104.
English (ENGL)	ENGL 228. (ENGL 2328) American Literature: Civil War to Present.	Expressions of the American experience in realism, regionalism and naturalism; varieties of modernist and contemporary writing; the rise of ethnic literatures and experimental literary forms; includes such writers as Dickinson, Twain, James, Crane, Frost, Eliot, Fitzgerald, Hemingway, Faulkner, O'Neill, Baldwin and Rich.	ENGL 104.
English (ENGL)	ENGL 231. (ENGL 2322) Survey of English Literature I	Literature of England from Anglo-Saxon times to the late 18th century, including such works as Beowulf, and such authors as Chaucer, Kempe, Spenser, Shakespeare, Donne, Philips, Behn, Dryden, Pope, Swift and Johnson.	ENGL 104.
English (ENGL)	ENGL 232. (ENGL 2323) Survey of English Literature II	Literature of England from the late 18th century to the 20th century, including such authors as the Romantics, Austen, the Brownings, the Brontes, Dickens, Seacole, Tennyson, Wilde, Conrad, Joyce, Woolf and Lawrence.	ENGL 104.
Economics (ECON)	ECON 465. Contemporary Economic Issues.	Application of microeconomic and macroeconomic analyses to evaluate contemporary economic issues.	Prerequisites: ECON 323 and 410
History (HIST)	HIST 101. (HIST 2311) Western Civilization to 1660.	Ancient civilizations, Greek, Roman and Asian; Christianity; medieval civilization in west, eastern Europe; political, social and intellectual developments from earliest human cultures to 1660.	None
History (HIST)	HIST 102. (HIST 2312) Western Civilization Since 1660.	Religious, dynastic and imperial developments; Industrial Revolution; western democracies; rise of nationalism and communism; central and eastern Europe; intellectual revolution; World Wars I and II and the contemporary world.	None

History (HIST)	HIST 105. (HIST 1301) History of the United States.	Colonial heritage; Revolution; adoption of Constitution; growth of nationalism and sectionalism; Civil War; Reconstruction.	None
History (HIST)	HIST 106. (HIST 1302) History of the United States	Since reconstruction; new social and industrial problems; rise of progressivism; U.S. emergence as world power; World War I; reaction and New Deal; World War II; contemporary America.	None
History (HIST)	HIST 307. Latino Communities of the U.S.	Hispanic or "Latino" communities of 20th century U.S.: Mexican Americans, Puerto Ricans, Cubans and Central Americans; differences in historical experiences; role of race, class, and gender; cultural identity as expressed in art, literature, folklore and religion; contemporary social, political, and economic issues.	None
History (HIST)	HIST 357. Out of Africa: The Black Diaspora and the Modern World.	History and cultures of the peoples of the African Diaspora from the fourteenth through the nineteenth centuries; social, political, and economic impact on Africa, the Americas, Europe, and the Arab World; emphasis on race, gender, identity, and migration.	None
History (HIST)	HIST 358. Chinese Cultural History.	Examination of Chinese culture and its evolution over the last 4,000 years; customs, art, literature, festivals, folklore, religion, architecture, medicine, and everyday life.	Junior or senior classification.
History (HIST)	HIST 464. International Developments Since 1918.	General survey of world politics since close of World War I; problems and ideologies of great powers of Europe and factors and conditions which explain present political tendencies and policies.	None
International Studies (INTS)	INTS 201. Introduction to International Studies	Introduction to the basic concepts and frameworks for analyzing global events and understanding the current international situation	for freshman and transfer international studies majors.
Journalism (JOUR)	JOUR 102. (COMM 1307) American Mass Media.	Introductory survey of mass communication media, their history and social role, to provide an understanding of the development and importance of mass communication media in modern society.	Freshman or sophomore classification, or approval of program director.
Philosophy (PHIL)	PHIL 240. (PHIL 2303) Introduction to Logic.	Methods and principles used to distinguish between correct and incorrect reasoning; uses of language, informal and formal fallacies, Venn diagrams, truth-tables, symbolic notation, formal deductive proof, induction.	None
Philosophy (PHIL)	PHIL 314. Environmental Ethics.	Moral basis of duties to preserve or protect plants, animals and environmental systems; foundations of environmental law and policy; the idea of nature in philosophy; critique of social and economic analyses of environmental values.	Sophomore classification or approval of instructor.
Political Science (POLS)	POLS 206. (GOVT 2305) American National Government	Survey of American national government, politics, and constitutional development.	None
Political Science (POLS)	POLS 207. (GOVT 2306) State and Local Government.	Survey of state and local government and politics with special reference to the constitution and politics of Texas.	None
Political Science (POLS)	POLS 328. Globalization and Democracy.	Examination of the political and economic origins of globalization; effects of globalization on advanced industrial democracies; effect on less developed nations; evaluation of the economic, social, cultural and political consequences of globalization.	Junior or senior classification
Political Science (POLS)	POLS 333. International Cooperation.	Contemporary issues, problems, and solutions in international cooperation	junior or senior classification POLS 206 or approval of department head.
Political Science (POLS)	POLS 429. Issues in World Politics.	Selected issues of importance in contemporary world politics.	
Psychology (PSYC)	PSYC 107. (PSYC 2301) Introduction to Psychology	Introductory course dealing with elementary principles of human behavior.	None
Psychology (PSYC)	PSYC 203. Elementary Statistics for Psychology	Practical knowledge of statistics up through analysis of variance. Practice sessions devoted to numerical problems.	PSYC 107; MATH 166 or equivalent; major in psychology.
Psychology (PSYC)	PSYC 204. Experimental Psychology	Research techniques in psychology with emphasis on the experimental method. Laboratory exercises applied to specific problems in psychology	PSYC 107 and 203; major in psychology.
Religion (RELS)	RELS 326. Sociology of Religion.	Institution of religion and religious-related behavior; relationship between dynamic and structural religion and contemporary society	SOCI 205. Cross-listed with SOCI 326.
Sociology (SOCI)	SOCI 205. (SOCI 1301) Introduction to Sociology	Sociological perspectives including concepts and methods; social class and social status, the family, minorities, crime, religion, power, urbanization and population.	None

Sociology (SOCI)	SOCI 220. Methods of Social Research.	Relationships between sociological theory, research, qualitative evaluation of data; construction and use of analytical procedures and research techniques, and participant observation.	None
Sociology (SOCI)	SOCI 230. Classical Sociological Theory	Role of theory in sociological study; the development of classical theoretical perspectives providing the foundation for contemporary theory.	None
Sociology (SOCI)	SOCI 324. Social Change	Survey of major changes in American and Western society, the forces underlying change and tensions caused by social change.	None
Sociology (SOCI)	SOCI 325. International Business Behavior.	Theoretical models and practical protocols/behavior demands to conduct business and to work in France, Germany, Japan, China, Mexico and other countries; discussion of national character, managerial and negotiating styles.	None
Sociology (SOCI)	SOCI 328. Environmental Sociology	A comprehensive overview of environmental sociology, including major sociological theories, concepts and policy issues affecting our understanding of environmental changes; emphasizes social factors that impact environmental quality.	SOCI 205 or approval of instructor.
Sociology (SOCI)	SOCI 335. Sociology of Organizations.	How people act in organizations; structures in organizations; the relationship between organizations and their environments.	None
Sociology (SOCI)	SOCI 407. Rural Sociology.	Adaptation of families to rural environments; farming and other occupations; rural lifestyles; organizations, agencies and institutions serving rural people; problems in delivering services to the country; rural development and change.	None
Sociology (SOCI)	SOCI 423. Globalization and Social Change	Examines the effects of globalization on social structure including politics, governments, corporations, work and inequality	Junior or senior classification or approval of instructor.
Women Studies (WMST)	391. Studies in Gender and Diversity	Exploration of a significant topic in gender studies, emphasizing the interplay of gender with one or more races, ethnicities, and/or cultures beyond the Anglo-American.	Junior or senior classification
Women Studies (WMST)	403. Language and Gender.	Language and gender from a sociolinguistic perspective; gender in the words and structures of language; gender representation and gendered language use in the media, and a variety of sociocultural contexts; language use in intimate relationships; computer-mediated discourse; language, sexuality, and sexual orientation.	Junior or senior classification. Cross-listed with ENGL 403 and LING 403
Women Studies (WMST)	WMST 404. Women and Culture	Examines women's lives in evolutionary and cross-cultural perspective; women's roles in subsistence, politics, religion and economics in traditional cultures; women's roles in international development; the cultural and social construction of women's biology cross-culturally including circumcision, menstruation, pregnancy, childbirth and motherhood.	Cross-listed with ANTH 404

## Mays Business School

Department	Course Number & Name	Description	Prerequisites
Accounting (ACCT)	ACCT. 209. Survey of Accounting Principles.	Accounting survey for non-business majors; non-technical accounting procedures, preparation and interpretation of financial statements and internal control.	None
Accounting (ACCT)	ACCT 229. (ACCT 2301, 2401) Introductory Accounting.	Analysis, recording and reporting of business transactions; partnership and corporation accounting; analysis and use of financial statements.	Sophomore classification.
Accounting (ACCT)	ACCT 230. (ACCT 2302, 2402) Introductory Accounting	Continuation of ACCT 229. Use of budgets; introduction to cost accounting; cost control techniques and methods of measuring performance	ACCT 229 and sophomore classification.
Accounting (ACCT)	ACCT 314. Programming of Business Systems.	Introduction to the programming of computerized business systems using contemporary software and practices; focus on development of computer-based solutions to common business problems	Admission to Professional Program or approval of instructor.
Finance (FINC)	FINC 201. (BUSI 1307) Personal Finance.	Financial management problems of the individual consumer; budgeting, insurance, saving and investing, and home financing.	None
Finance (FINC)	FINC 409. Survey of Finance Principles.	Finance survey for non-business majors; financial markets, the investment banking process, interest rates, financial intermediaries and the banking system, financial instruments, time value of money concepts, and security valuation and selection	ACCT 209 or 229; junior classification; for students other than business and agribusiness
Information & Operations Management (INFO)	INFO 209. Business Information Systems Concepts	Introduction to the use of computers in data and document management and as a problem-solving tool for business; fundamental concepts of information technology and theory; opportunities to use existing application software to solve various business information systems oriented problems.	None
Information & Operations Management (INFO)	INFO 446. E-Services	Examines the deployment and utilization of information technologies by businesses, governments and not for profit organizations to deliver services, with applications in banking and financial advisory services, healthcare, and federal, state and local governments.	Senior classification in business or approval of instructor.
International Business (IBUS)	IBUS 401. Global Marketing	urvey of the aspects involved in marketing products and services in the international market; tariffs, cultural restrictions, business environment and legal restrictions.	Prerequisite: MKTG 321. Cross-listed with MKTG 401.
International Business (IBUS)	IBUS 403. International Market Entry Strategies	A research-based course in which students prepare an analysis of a country, or region outside the U.S., and use it in the preparation of a marketing plan for a good or service to be introduced and marketed in that country.	MKTG 321; concurrent registration in MKTG/IBUS 402; junior or senior classification. Cross-listed with MKTG 403.
International Business (IBUS)	IBUS 452. International Management	An overview of international management to include international dimensions of organizational behavior, theory, strategy and human resource management; application of theoretical ideas to real-world situations through case analyses, presentations, projects and interactive class discussion.	MGMT 450 or co-enrollment in MGMT 450 and 452. Cross-listed with MGMT 452.
International Business (IBUS)	IBUS 459. Latin American Markets.	Comparing and contrasting the Latin American, Canadian and U.S. markets across different variables, including culture, economics, social and legal aspects.	MKTG 321.
International Business (IBUS)	IBUS 460. Academy for Future International Leaders	A practical orientation to international business and cultural issues to prepare selected Texas A&M students for the international marketplace; joint effort among all colleges at Texas A&M; designed to complement any academic major by helping students gain a global perspective of their chosen field of study.	Junior or senior classification.
Management (MGMT)	MGMT 105. (BUSI 1301) Introduction to Business.	Survey of economic systems, forms of business ownership and running the small business; organizing and managing businesses; managing human resources; managing production and information; managing marketing, introducing financial issues including accounting, money and banking, securities markets; business issues and challenges including legal and regulatory environment, business ethics and international business.	Limited to students in freshman or sophomore classification.

Management (MGMT)	MGMT 209. Business, Government and Society	Impact of the external environment—legal, political, economic and international—on business behavior; market and non-market solutions to contemporary public policies confronting business persons examined including antitrust law, employment and discrimination law, product safety regulation, consumer protection and ethics.	Sophomore classification; for students other than business and agribusiness majors.
Management (MGMT)	MGMT 211. (BUSI 2302) Legal and Social Environment of Business.	Role of government in business and society; analysis of social policy and legal institutions; ethical problems in management decisions; administrative law; antitrust law; employment and discrimination law; regulation of business transactions; protection of property rights; regulation of information in markets including securities and product safety; international business law.	Sophomore classification.
Management (MGMT)	MGMT 212. (BUSI 2301) Business Law	Legal principles of business; legal reasoning; dispute resolution and procedure; contract law; bankruptcy law; property law; Uniform Commercial Codes sections concerning contracts, security interests, negotiable instruments and sales.	Sophomore classification.
Management (MGMT)	MGMT 309. Survey of Management.	Survey for non-business majors of the basic functions and responsibilities of managers; includes the environmental context of management, planning and decision making, organization structure and design, leading and managing people, and the controlling process; issues of globalization, ethics, quality and diversity integrated throughout the course.	Junior classification; for students other than business and agribusiness majors.
Marketing (MKTG)	MKTG 409. Introduction to Marketing.	A survey course of the basic principles of marketing and key decision areas; product, promotion, distribution and pricing. May not be used to satisfy degree requirements for majors in business.	Junior classification; for students other than business and agribusiness majors.
Marketing (MKTG)	MKTG 438. Strategic Internet Marketing.	Implications of the internet and related digital technologies for marketing strategy; evolution of the electronic marketplace; impact of the electronic marketplace on the marketing mix decisions of firms; competitive advantage; public policy issues; future trends and developments.	junior or senior classification.
Marketing (MKTG)	MKTG 447. Advertising Procedures.	Advertising procedures for newspapers, magazines, radio and television; retail, mail order, national and industrial advertising; advertising agencies; advertising research.	approval of instructor.

## College of Engineering

Department	Course Number & Name	Description	Prerequisites
Computer Science (CPSC)	CPSC 110 Programming	Basic concepts, nomenclature and historical perspective of computers and computing; internal representation of data, software design principles and practices, structured programming in Pascal,...	
Computer Science (CPSC)	CPSC 181 Introduction to Computing	Introduce students to the broad field of computing; includes major writing component	
Computer Science (CPSC)	CPSC 211 Data Structures and their Implementation	Specification and implementation of basic data structures and abstract data types	
Computer Science (CPSC)	CPSC 310 Database Systems	File structures and access methods; database modeling, design and user interface, components of database management systems, information storage and retrieval, query languages...	211 or 221
Computer Science (CPSC)	CPSC 436 Computer-Human Interaction	Comprehensive study of the Computer-Human interaction area	
Computer Science (CPSC)	CPSC 444 Structures of Interactive Information	A systems approach to the programming design, authoring and theory of hypermedia	
Engineering (ENGR)	ENGR 101 Energy: Resources, Utilization and Importance to Society	Introductory course about current and potential energy sources, the link between energy and wealth, and the consequences of action or inaction concerning energy and the environment	
Engineering (ENGR)	ENGR 400 Public Leadership Development	Major issues in the study of public leadership, development of leadership skills, and a field investigation done in conjunction with local public leaders	
Engineering (ENGR)	ENGR 401 Interdisciplinary design	Design process applied to an interdisciplinary design project: establish the customer need; determine requirements in terms of function and performance; develop alternative design concepts, perform trade-off studies...	
Engineering Technology (ENTC)	ENTC 120 Introduction to Quality Assurance	Importance of quality to the competitiveness of service and manufacturing processes; management philosophies, teamworking, basic techniques of problem solving, process diagnosing and improvement, process variability	
Engineering Technology (ENTC)	ENTC 320 Quality Assurance	Applied statistical process control and design-of-experiment techniques for quality improvement and process characterization; emphasis on organizations in a continuous-improvement, customer driven environment	
Industrial Engineering (ISEN)	ISEN 302 Economic Analysis of Engineering projects	Principles of economic equivalence, time value of money, analysis of single and multiple investments, comparison of alternatives, capital recovery and after-tax analysis of economic projects	MATH 152
Industrial Engineering (ISEN)	ISEN 303 Engineering Economic Analysis	Principles of economic equivalence, time value of money, analysis of single and multiple investments, comparison of alternatives, capital recovery and tax implications, certainty, uncertainty risk analysis, public sector analysis and break-even concepts	MATH 152
Industrial Engineering (ISEN)	ISEN 430 Human Factors and Ergonomics	Human biological, ergonomic, and psychological capabilities and limitations, techniques and procedures for developing and applying the principles of human factors engineering to systems design, stresses interdisciplinary nature of the subject	
Industrial Engineering (ISEN)	ISEN 420 Operations Research I	Development and application of fundamental deterministic analytical methods including linear programming, integer programming, dynamic programming and nonlinear optimization	MATH 304
Industrial Engineering (ISEN)	ISEN 421 Operations Research II	Development and application of probabilistic analytical methods including Markov chains, queuing systems and digital simulation models	MATH 304 or STAT 212

## College of Education

Department	Course Number & Name	Description	Prerequisites
Early Childhood Education (ECHE)	ECHE 244. School, Family and Community Dynamics in Early Childhood Education.	Study of the family unit, home-school relationships; strategies for building cooperative activities with parents in the education of their children; healthy parent school-community relationships; developing collaboration, communication, leadership and advocacy skills; increased sensitivity to cross-cultural issues and strategies for collaboration.	None
Early Childhood Education (ECHE)	ECHE 321. The Young Child and Early Childhood Education	Examines the world of the contemporary child, its demographics and diversity; explores the philosophical and historical foundation of early childhood education; examines early childhood programs and practices serving young children from birth through age nine; translates child development theory into developmentally appropriate practice	Prerequisites: ECHE 244; junior classification. Corequisite: ECHE 331.
Early Childhood Education (ECHE)	ECHE 331. Creative Inquiry Through the Arts for the Young Child	Explores the roles of the arts in the education of young children; examines theoretical stages in children employing both graphic and musical expression; understanding Gardner's "Frames of Mind," the dynamics of creativity and its development in young children; explores strategies for enhancing creative development, inquiry and expression of young children	Junior classification. Corequisite: ECHE 321.
Early Childhood Education (ECHE)	ECHE 342. Strategies for Teaching Young Children.	Application of sound principles of early childhood pedagogical best practices informed by research, child development and clinical literature; explores developmentally appropriate instructional strategies practiced at each age and grade level; examines effective learning environments, teacher-child interaction, cooperative grouping and inquiry strategies for teaching and learning.	ECHE 244, 321, 331; junior classification. Corequisite: ECHE 332.
Educational Administration and Human Resource Development (EHRD)	EHRD 101. Introduction to Leadership Development in Higher Education	Exploration of leadership definitions and models focusing on leadership as a relational process; examination of the "how" and "why" and the interplay of relationships between leadership and the environment; discussion of complex organizations, community-building, and importance of coalitions; introduction of concept of renewal and maintaining a dynamic state.	None
Educational Administration and Human Resource Development (EHRD)	EHRD 104. Service Learning	Discuss societal issues and citizens' responsibility to address issues; create and participate in opportunities that relate academic study directly to community service; reflect on and process service experiences with emphasis on linking academic assignments with hands-on service; engage student in actions resulting in the common good.	None
Educational Administration and Human Resource Development (EHRD)	EHRD 303. Foundations of Human Resource Development	Overview of the discipline and field of human resource development focus on how individuals and groups learn and interact with organizations including motivation, group dynamics, system theory, organizational culture, learning and change.	Junior or senior classification and approval of instructor.
Educational Administration and Human Resource Development (EHRD)	EHRD 345. Computer Applications for Training and Development.	Computer applications in human resource development; use of technology in solving organizational problems; application of computer technology to particular problems using pre-written application-development software	Junior or senior classification and approval of instructor.
Educational Administration and Human Resource Development (EHRD)	EHRD 372. Training and Development in HRD.	Theory and applications of training and development in organizations; focus on rapid changes in technology, alterations in the cultures of organizations, dynamic market conditions, and the need for information sharing, planning for ongoing skill development in the for-profit and non-profit sectors	Junior or senior classification and approval of instructor.
Educational Administration and Human Resource Development (EHRD)	EHRD 374. Organizational Development	Introduction to major theories, concepts, skills and techniques for organization development in business and industry, education and the public sector.	Junior or senior classification and approval of instructor.
Educational Administration and Human Resource Development (EHRD)	EHRD 405. Principles and Practices of Leadership in HRD	Theories and concepts associated with learning in individuals and organizations; overview of leadership theories and learning theories within a context of developing leadership programs	Junior or senior classification and approval of instructor.
Educational Administration and Human Resource Development (EHRD)	EHRD 408. Diversity Issues and Practices in HRD	Intended to help educators in HRD contexts to identify and understand diversity issues in work and community settings; emphasis on application of knowledge to professional practice of employees, educators, trainers and managers in an HRD context	Junior or senior classification and approval of instructor.

Educational Administration and Human Resource Development (EHRD)	EHRD 474. Distance Networking for Training and Development.	Development of knowledge towards application of telecommunication networking in public education and corporate training settings; technical alternatives for delivery of subject matter for educators and trainers	Junior or senior classification and approval of instructor.
Educational Administration and Human Resource Development (EHRD)	EHRD 475. Multimedia Development for Training and Instruction	Introduction to the development of multimedia as it applies to training and development; examine the application of multimedia principles to educational and training settings for both "face-to-face" and distance applications	Junior or senior classification and approval of instructor.
Educational Administration and Human Resource Development (EHRD)	EHRD 476. Managing Technical Networks	Development of knowledge and skills towards the application of technical network management in public education and corporate training settings; focus on practices, techniques and tools for managers of technical networks.	Junior or senior classification and approval of instructor.
Educational Administration and Human Resource Development (EHRD)	EHRD 479. Grants and Contracts	Identify funding sources that support research and development activities; identify methods of securing funding; study state, national and private funding sources and how to become successful in submitting to each; complete a proposal to a funding agency and a management plan for a funded project	Junior or senior classification and approval of instructor.
Educational Administration and Human Resource Development (EHRD)	EHRD 481. Human Resource Development Seminar	Transition from an academic environment to a professional business environment; preparation of an individual professional portfolio; steps in searching and securing an internship position. Assists students in becoming more aware of their abilities, interests and values, with requirements of tentatively chosen careers and preparation programs, and with career decision processes; group and individual counseling, testing and independent study	Junior or senior classification and approval of instructor.
Educational Psychology (EPSY)	EPSY 102. Career Development.		Designed for freshmen, sophomores and undeclared majors
Educational Psychology (EPSY)	EPSY 432. Creativity and Creative Problem Solving.	Creativity research; historical background and application of the framework and tools of the Parnes/Osborn Creative Problem Solving Process	Junior or senior classification.
Educational Psychology (EPSY)	EPSY 433. Lateral Thinking	Edward deBono's theories and approach to creativity known as lateral thinking which is used throughout the world to increase creative thinking in individuals The magnitude of the accident problem as it relates to individual and community well-being; promotion of safe behavior.	Junior or senior classification.
Health (HLTH)	HLTH 221. Safety.	First responder course in basic emergency medical care; emphasis on requirements of national and state accrediting agencies; in-depth study and practice dealing with assessment, mechanical aids to breathing, CPR, hemorrhage control, soft tissue injury, shock management, orthopedic injuries, emergency childbirth and light rescue.	None
Health (HLTH)	HLTH 317. Emergency Care and Transportation.		HLTH 216; junior or senior classification.
Kinesiology (KINE)	KINE 230. Outdoor Adventure Programs	Development of knowledge and skills necessary for implementing school and youth programs in outdoor adventure activities such as canoeing, backpacking, rappelling, map and compass/orienteering and camping.	None
Kinesiology (KINE)	KINE 300. Field Experiences in Outdoor Education.	Field-based learning experience designed as leadership training in various outdoor adventure activities such as backpacking, canoeing and rock climbing	KINE 230 or approval of instructor.
Kinesiology (KINE)	KINE 308. Integrated Adventure Education.	Philosophy of outdoor education in a physical education program; designing and implementing outdoor adventure activities in an experiential and interdisciplinary manner for reinforcing the Texas Essential Knowledge and Skills	Junior or senior classification or instructor approval.
Kinesiology (KINE)	KINE 310. Pool and Waterfront Management	Sanitary codes and pool sanitation; safety; problems of pool and waterfront management; selection of personnel.	None
Kinesiology (KINE)	KINE 326. Outdoor Education.	Procedures and techniques for extending the classroom to the outdoors; resources, activities and strategies for using the outdoors as an educational tool.	KINE 230
Kinesiology (KINE)	KINE 408. Theory and Practice of Adventure Education.	Foundational theories of adventure education; research and current practice in the application of the theories and their related skills.	KINE 230 and 326; junior or senior classification.



Kinesiology (KINE)	KINE 409. Logistics and Strategies for Backcountry Expeditions.	Organization and planning strategies for potential wilderness leaders seeking to lead groups on extended trips into the backcountry; logistical requirements for maximum safety, expedition effectiveness and minimum impact on the environment; developing sound judgment and positive expedition behavior practices.	KINE 230 and 326 or approval of instructor.
Kinesiology (KINE)	KINE 431. Ropes Course and Group Process	Techniques of group facilitation for initiatives of ropes/challenge course events; activity presentation and sequencing, safety techniques and construction principles, and processing experiences for transfer of learning.	KINE 230; 326 or KINE 199 (Venture Dynamics).
Sport Management (SPMT)	SPMT 217 Foundations of Sport Management	History, principles, and objectives of the sport management profession; an overview of the structure of the sport industry; introduction to the scope and variety of career opportunities in sport.	None
Sport Management (SPMT)	SPMT 333. Sport Management.	Introduction to techniques for proper management of programs in physical activities and athletics including the basic physical education instructional program, intercollegiate and interscholastic athletics, intramural and club programs, and alternative athletic programs such as health clubs, corporate fitness centers and YMCA/YWCAs.	Junior or senior classification; admission to professional phase of program.
Sport Management (SPMT)	SPMT 337. International Sport Business.	The magnitude of global expansion and development of sport familiarity with major firms and organizations on the global scene, major issues in global sports; emphasis on business opportunities available internationally; underlying thesis focuses on the contrasts from the U.S. sport industry to foreign markets.	Junior or senior classification.
Sport Management (SPMT)	SPMT 420. Sports Facility Planning.	Examination of the principles involved in planning and managing sports and recreational facilities.	Junior or senior classification; admission to professional phase of program or approval of instructor for non-sport management majors.
Sport Management (SPMT)	SPMT 423. Marketing Aspects of Sport.	Investigates the rapidly developing sports industry from a marketing perspective; familiarizes students with marketing terms and tools needed in the sports industry; introduction to the various aspects of marketing that make up the marketing plan	Junior or senior classification; admission to professional phase of program.
Teacher Education Field Based (TEFB)	TEFB 471. Dynamics and Management in Multicultural/Inclusionary Learning Environments	Field-based course focusing on communication, methodology and management perspectives that lead to democratic classrooms; organizational structures that focus on transformative, inclusionary learning; interventions for students with disabilities; analysis of systemic conditions placing children from diverse backgrounds and representing diverse abilities in positions of "risk" for incomplete success in school	Senior classification; admission to teacher education; concurrent enrollment in TEFB 410, 412, 413 and RDNG 467.