

Course Descriptions (effective Summer 2019)

Accounting (ACC)

2301 Survey of Accounting

Pre-requisite(s): Not open to business majors or other students who have taken ACC 2303.

An introduction to accounting for non-business majors that follows the business cycle of a start-up company. Topics include researching a company, financing operations, planning and budgeting, and the basic accounting cycle.

2303 Financial Accounting

Pre-requisite(s): Cumulative GPA of 3.0 or higher. A minimum grade of C in BUS 1101, 1201, and BUS 1305. Only open to BBA students.

An introduction to corporate financial statements, their preparation, and their use in decision making by persons outside the organization. The course focuses on analyzing business transactions to chart their effects on the results of operations, the cash flows, and the financial position of businesses organized for profit.

2304 Managerial Accounting

Pre-requisite(s): Cumulative GPA of 3.0 or higher. A minimum grade of C in ACC 2303. Only open to BBA students.

An introduction to principles of managerial accounting. Emphasis is given to the development and use of accounting information to support managerial decision-making processes in manufacturing, service, and not-for-profit settings. Topics include managerial concepts and systems, various analyses for decision making, and planning and control.

3301 Financial Accounting and Reporting I

Co-requisite(s): ACC 3303.

Pre-requisite(s): Grades of B or better in both ACC 2303 and 2304; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

An examination of financial accounting considerations of business transactions. Emphasis is placed on understanding the accounting cycle, the conceptual framework underlying financial accounting, and recognition, measurement and reporting of receivables, inventories, property, plant and equipment, intangibles, liabilities, and stockholders' equity.

3302 Financial Accounting and Reporting II

Co-requisite(s): ACC 3304.

Pre-requisite(s): ACC 3301 and 3303 with minimum grade of C or better in each course; only open to accounting majors.

A continuation course to ACC 3301, examining financial accounting considerations of business transactions. Emphasis is placed on understanding the recognition, measurement, and reporting of revenue, earnings per share, deferred taxes, pensions, and leases.

3303 Accounting Information Systems

Co-requisite(s): ACC 3301.

Pre-requisite(s): Grades of B or better in both ACC 2303 and 2304; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

An in-depth study of the application of information systems knowledge to the accounting environment. Emphasis is upon developing students' abilities to understand the processing of accounting data (with an emphasis on the computer environment) and the controls that are necessary to assure accuracy and reliability of the data processed by the accounting system. Fee: \$50

3304 Introduction to Federal Taxation

Co-requisite(s): ACC 3302.

Pre-requisite(s): ACC 3301 and 3303 with minimum grade of C or better in each course; only open to accounting majors.

An examination of the economic theory on which the United States taxation system is based and the legal principles surrounding income taxation.

3305 Intermediate Accounting I

Pre-requisite(s): A minimum grade of C in ACC 2304; only open to BBA students; BBA students must be admitted to the Business School in order to take this course. (Not open to accounting majors.)

The first of two courses for non-accounting majors covering financial accounting concepts and practices applicable to business enterprises organized for profit. Topics include the accounting cycle, the conceptual framework underlying financial accounting, measurement and reporting issues relating to receivables, inventories, intangible assets, property and equipment, and an overview of the income statement and balance sheet. May not be taken after credit received for ACC 3301.

3306 Intermediate Accounting II

Pre-requisite(s): ACC 3301 or 3305. (Not open to accounting majors).

A continuation of ACC 3305 for non-accounting majors, focusing on current liabilities, long-term debt, investments, stockholders' equity, and the statement of cash flows. Coverage includes accounting issues related to pensions, leases, deferred income taxes, earnings per share, accounting changes, and error analysis. May not be taken after credit received for ACC 3302.

3310 Accounting Research and Communication

Pre-requisite(s): ACC 3301 and 3303 with minimum grade of C or better; only open to accounting majors.

Use of primary sources of authoritative literature in resolving complex, professionally-oriented problems, primarily in financial accounting and taxation. Development of critical thinking and written and oral communication skills through applied research cases. Fee: \$50

3331 Control and Audit of Information Systems (Cross-listed as MIS 3332)

See MIS 3332 for course information.

4308 Advanced Managerial Accounting

Co-requisite(s): ACC 4330.

Pre-requisite(s): ACC 3302 and 3304 with a grade of C or better; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Advanced study of managerial accounting and its use in both internal and external reporting, with an emphasis on managerial decision making. Course topics include various costing systems, cost-volume-profit analysis and the contribution approach to decision making, budgeting, and other managerial topics for planning and control.

4310 Energy Accounting and Law

Pre-requisite(s): Recommended ACC 2303 and 2304.

This course provides an overview of the oil and gas industry with respect to the accounting, tax, and legal functions of an organization. This includes the introduction of general terminology, history, and technical advances in the oil and gas industry as well as detailed analyses of industry specific accounting methods, cost recovery systems as well as financing and organizational structure trends in the industry.

4320 Not-for-Profit and Governmental Accounting

Pre-requisite(s): ACC 4308 and 4330 with a grade of C or better in each course. (Not open to pre-business students).

Examination of accounting, financial reporting, and budgeting for state and local governments, the federal government, and not-for-profit entities.

4330 Auditing, Attestation and Assurance Services

Co-requisite(s): ACC 4308.

Pre-requisite(s): ACC 3302 and 3304 with a grade of C or better; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of the processes conducted by independent, internal, and governmental accountants to audit, attest, and provide assurance services on information provided by management. Theoretical concepts of materiality, audit risk, and evidential matter are explored, along with the auditor's understanding of controls in a sophisticated technological environment. The application of these concepts in a way that develops critical thinking and communications skills is emphasized. Fee: \$50

4340 Advanced Accounting

Pre-requisite(s): ACC 3302 and ACC 3304 with a grade of C or better in each course. (Not open to pre-business students.)

A study of partnership accounting practices and the techniques followed to consolidate the financial statements of parent and subsidiary companies. Attention is also given to the distinctive accounting procedures associated with governmental and not-for-profit accounting.

4350 Business and Professional Ethics for Accountants

Pre-requisite(s): ACC 3302 and 3304 with a grade of C or better; not open to pre-business students.

Examination of moral and ethical issues within the accounting profession and the broader business environment. In addition to a broad study of ethical behavior and decision making, various professional codes of conduct within the accounting profession will be examined. Central to this examination will be the discussion of integrity, independence and objectivity, as well as accountants' legal liability.

4377 Personal and Business Tax Planning

Pre-requisite(s): A minimum grade of C in ACC 2304; only open to BBA students; BBA students must be admitted to the Business School in order to take this course; not open to accounting majors.

Basic tax concepts and principles. Extensive discussion of an individual's income deductions as well as family tax planning issues. Examination of the effect of taxes on business decisions, including a study of the various forms of businesses. Coverage also includes taxation of employee benefits, business expenses, and gift, estate, and trust taxation. Limited tax return preparation. May not be taken after credit received for ACC 3304.

4378 International Accounting

Pre-requisite(s): A minimum grade of C in ACC 2303 and 2304; not open to pre-business students.

Examination of international accounting within the context of managing multinational enterprises (MNEs). The course will address accounting issues in the context of different countries. Exploration of the factors that influence accounting standards and practices and how those factors impact the harmonization of worldwide standards.

4396 Internship in Accounting

Pre-requisite(s): ACC 3302 and 3304 with a grade of C or better in each course and consent of director of accounting internships; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Supervised work, full-time, for a minimum of eight consecutive weeks with duties consistent with those of beginning accounting graduates.

4V98 Special Studies in Accounting**1 to 6 sem. hrs.**

Pre-requisite(s): Consent of instructor; not open to pre-business students.

Individualized research in accounting. Student's proposals for special study project must be approved by the supervising faculty member. Offered on demand and by consent of the advisor for one to six semester hours. May be repeated several times under different topics.

Aerospace Studies (AS)

General Military Course (AS)

1101 Foundations of the Air Force I

Co-requisite(s): AS 1111.

The course allows students to examine general aspects of the Department of the Air Force, AF Leadership, Air Force benefits, and opportunities for Air Force officers. The course also lays the foundation for becoming an Airman such as AF customs and courtesies, AF dress and appearance, team building, communication skills, AF Core values, and more.

1102 Foundations of the Air Force II

Co-requisite(s): AS 1112.

Continuation of AS 1101. As a foundational course, AS 1102 provides a historical perspective on war and US military, AF operations, principles of war and airpower. As a whole, this course provides students with a knowledge-level understanding for the employment of air and space power, from an institutional, doctrine, and historical perspective.

1111 Leadership Laboratory

Co-requisite(s): AS 1101.

A study of Air Force customs and courtesies, drill and ceremonies, career opportunities in the Air Force and the life and work of an Air Force officer. An extensive physical fitness program is taught, reinforced and evaluated. Students under contract must pass a physical fitness test each term. Field trips to Air Force installations are usually included.

1112 Leadership Laboratory

Co-requisite(s): AS 1102.

A continuation of AS 1111.

2101 Evolution of Air and Space Power I

Co-requisite(s): AS 2111.

An introductory course exploring the roles of the U.S. Air Force, Army, Navy and Marine Corps through a doctrinal and historical perspective. Evolution of air power from the end of WWI through WW II. Broaden understanding of Air Force Core Value and critical thinking skills.

2102 Evolution of Air and Space Power II

Co-requisite(s): AS 2112.

A continuation of AS 2101, with a comprehensive survey of the evolution of air power. Introduction into and development of leadership fundamentals, with an emphasis on ethical and communication foundations.

2111 Leadership Laboratory

Co-requisite(s): AS 2101.

A continuation of AS 1112.

2112 Leadership Laboratory

Co-requisite(s): AS 2102.

A continuation of AS 2111.

Professional Officer Course (AS)**3111 Leadership Laboratory**

Co-requisite(s): AS 3301.

A continuation of AS 2112.

3112 Leadership Laboratory

Co-requisite(s): AS 3302.

A continuation of AS 3111.

3301 United States Air Force Leadership Studies I

Co-requisite(s): AS 3111.

A study of leadership/followership, authority/responsibility, management functions, motivation, feedback, ethics, team building, and counseling subordinates. Emphasis on improving speaking/writing communication skills and assessing personal leadership strengths and weaknesses. Concurrent laboratory (AS 3111) enrollment required for AFROTC students.

3302 United States Air Force Leadership Studies II

Co-requisite(s): AS 3112.

A continuation of AS 3301. Concurrent laboratory (AS 3112) enrollment required for AFROTC students.

4111 Leadership Laboratory

Co-requisite(s): AS 4301.

A continuation of AS 3112.

4112 Leadership Laboratory

Co-requisite(s): AS 4302.

A continuation of AS 4111.

4301 Defense Studies (National Security Affairs)

Co-requisite(s): AS 4111.

Pre-requisite(s): Upper-level standing or consent of instructor.

A study of civilian control of the military, the national security process and issues, American defense strategy and policy, and the Air Force organizational structure. Laboratory (AS 4111) enrollment is required for AFROTC students. This course may also be taken by non-AFROTC students without the lab.

4302 Preparation for Active Duty

Co-requisite(s): AS 4112.

This course prepares the student for active duty studying various world regions, officership, the military justice system, the military as a profession, and advanced leadership ethics. Special emphasis is placed on speaking and writing skills in the unique military-style format. Laboratory (AS 4112) enrollment required for AFROTC students.

Air Pilot (AIRP)

1175 Intermediate Flight

Pre-requisite(s): AIRP 2250.

Flight training which will provide the student with cross-country flight hours and experience necessary to fulfill Federal Aviation Administration (FAA) requirements in preparation for the Commercial Pilot certificate, Single Engine Land, Airplane Rating.

1215 Private Pilot Flight

Flight training which will prepare the student for the Federal Aviation Administration (FAA) Private Pilot certification process. The course includes both solo and dual (with instructor) flight training, including ground operations, flight maneuvers and cross-country navigation.

1301 Air Navigation

Ground School instruction in Visual Flight Rules (VFR) and navigation in the national airspace system. Topics include sectional charts, flight computers, plotters, navigation logs and flight planning publications.

1307 Aviation Meteorology

In-depth coverage of meteorological phenomena affecting aircraft flight. Topics include basic concepts of aviation meteorology in the study of temperature, pressure, moisture, stability, clouds, air masses, fronts, thunderstorms, icing, and fog. Also includes analysis and use of weather data for flight planning.

1372 Dispatch Resource Management

A study of human factors in aviation and the challenges of optimizing communication between diverse workgroups within an airline. The course also covers operational control, decision-making, communication, and workload management issues associated with the profession of aircraft dispatcher. Aviation incidents and accidents related to the aircraft dispatcher are explored.

1373 Helicopter Aerodynamics

Study of the General Principles of the Physical Laws of Flight. Topics Include Physical Terms and the Four Forces of Flight, Lift, Weight, Thrust, and Drag, Helicopter Design, Aerodynamic forces on rotor airfoils, Stability Control and stability/controllability characteristics, hazardous flight conditions, and overlapping fixed-wing aerodynamics similarities.

1417 Private Pilot Ground School

Ground school providing the necessary aeronautical knowledge required for the Federal Aviation Administration (FAA) Private Pilot Certificate. Topics include principles of flight, radio procedures, weather, navigation, aerodynamics, and Federal Aviation Administration regulations.

1451 Instrument Ground School

Pre-requisite(s): AIRP 1417.

Ground school providing the necessary aeronautical knowledge required for the Federal Aviation Administration (FAA) Instrument Rating. Topics include basic radio instrument and navigation fundamentals, navigation systems, navigation instruments, charts used for instrument flight and Federal Aviation Administration regulations pertaining to instrument flight.

1471 Helicopter Instrument Ground School

A study of basic instrument radio and navigation fundamentals used in instrument helicopter flight. Topics include a description and practical use of navigation systems and instruments, charts used for instrument flight, and Federal Aviation Administration regulations. Qualifies as part of a program leading to Federal Aviation Administration certification.

2151 Multiengine Flight

Pre-requisite(s): Pre-requisite(s): AIRP 2239.

Flight training for the Federal Aviation Administration (FAA) Multiengine class rating process. The course includes both solo and dual (with instructor) flight training, including ground operations, normal and emergency flight procedures and cross-country navigation.

2172 Flight Instructor - Instrument Helicopter

Skill development in the fundamentals of teaching and learning in a helicopter-oriented environment. Introduction to the techniques of instruction and analysis of helicopter flight maneuvers. Topics include helicopter flight instructor responsibilities and Federal Aviation Regulations relating to the instructor rating.

2236 Certified Flight Instructor - Airplane

Pre-requisite(s): AIRP 2239.

Flight training which will prepare the student for the Federal Aviation Administration (FAA) Certified Flight Instructor-Airplane certification process.

2239 Commercial Flight

Pre-requisite(s): AIRP 2250.

Flight training for the Federal Aviation Administration (FAA) Commercial Pilot certification process. The course includes both solo and dual (with instructor) flight training preparing the student for mastery of all commercial pilot maneuvers.

2242 Flight Instructor - Instrument Airplane

Pre-requisite(s): AIRP 2236 and AIRP 2250.

Flight training for the Federal Aviation Administration (FAA) Certified Flight Instructor Instrument Rating certification process.

2243 Flight Instruction-Multiengine Airplane

Pre-requisite(s): AIRP 2236, AIRP 2242 and AIRP 2251.

In-flight training to prepare the student for the Federal Aviation Administration Flight Instructor-Multiengine Airplane Rating.

2250 Instrument Flight

Pre-requisite(s): AIRP 1215.

Flight training for the Federal Aviation Administration (FAA) Instrument Rating certification process. The course includes both solo and dual (with instructor) flight training, including instrument procedures and cross-country navigation operating under Instrument Flight Rules (IFR).

2273 Helicopter Commercial Flight

Pre-requisite(s): AIRP 2250 with minimum grade of C.

Helicopter flight instruction necessary to qualify for the Federal Aviation Administration Commercial Pilot Certificate. Instruction includes both dual and solo flight training to prepare the student to perform commercial helicopter pilot maneuvers.

2274 Helicopter Certified Flight Instructor

Pre-requisite(s): AIRP 2273 with a minimum grade of C.

Helicopter flight and ground school instruction required to qualify for the Federal Aviation Administration Certified Flight Instructor-Helicopter certificate.

2331 Advanced Aviation Meteorology

Structure of the atmosphere and weather patterns. Examines weather hazards encountered by commercial pilots, including thunderstorms, turbulence, wind shear, visibility restrictions, icing, and hydroplaning. Coded weather reports, forecasts, weather charts and prognostic charts are utilized in class for flight planning and in-flight decision-making.

2337 Commercial Ground School

Ground school providing the necessary aeronautical knowledge required for the Federal Aviation Administration (FAA) Commercial Pilot Certificate.

2349 Instructor Ground School

Basic theory of learning and human behavior pertaining to flight instruction, flight instructor's responsibilities, flight training maneuvers, plus review of FARs flight planning and performance. Prepares students to pass the Federal Aviation Administration FOI (Fundamentals of Instruction) and FIA (Flight Instructor/Airplane) computer examinations.

2357 Turbine Aircraft Systems and Ground School

Basic aircraft gas turbine engine theory, nomenclature, component design, turbine engine systems, operation, and fault isolation techniques, turbine engine maintenance, and operation.

2376 Helicopter Propulsion Systems

In-depth coverage of aircraft engine theory and principles of operation of various types of helicopter engines. Topics include engine components, rotors, engine accessories, engine controls, and helicopter engine instrumentation to include glass cockpit instrumentation.

2452 Practical Dispatching I

Study of advanced concepts in weight and balance, performance calculations, avionics, and engine and airplane specifications including Federal Aviation regulations. Preparation for the Federal Aviation Administration Aircraft Dispatcher written examination.

2453 Practical Dispatching II

Pre-requisite(s): AIRP 2452.

A study of the duties and responsibilities required of an aircraft dispatcher. Topics include instruction in Federal Aviation Administration regulations, flight planning, and company operations for both domestic and international operations. Preparation for the Federal Aviation Administration Practical Examination.

2455 Propulsion Systems

In-depth coverage of aircraft engine theory and principles of operation of various types of aircraft engines including reciprocating, turboprop, turbojet, and turbo fan. Topics include propellers, superchargers, engine accessories, controls, and instrumentation.

American Studies (AMS)**4385 Seminar in American Studies**

Pre-requisite(s): Senior standing or consent of program director.

Studies the theory and practice of American Studies, presents students with the opportunity to analyze written and visual texts, and requires a major paper. Through written work and oral presentations, the course gives students a broad perspective on the American culture.

Anthropology (ANT)**1305 Introduction to Anthropology**

A survey of human past and present physical and cultural diversity. The student is introduced to cultural anthropology, physical anthropology, archaeology, and linguistics, which provide a basis for understanding cultural diversity both within the U.S.A. and abroad.

1310 Cultural Geography (Cross-listed as GEOG 1310)

An introductory course in human or cultural geography. Topics include geographical concepts and factors; systematic and regional approaches; geographic tools and techniques, stressing spatial interactions; reciprocal relations between peoples and geographical environments; geographical graphics; major earth regions and their interrelations.

1325 Introduction to Global Health

An introduction to global health and illness from a cross-cultural and cross-border perspective.

1360 Religion, Magic and Witchcraft

Cross-cultural variability in beliefs and practices related to the supernatural, including theories about social, psychological, and ecological functions.

1404 Introduction to Human Evolution

An introduction to the study of humans as biological organisms. Emphasis on evolutionary theory and natural selection as driving forces in human evolutionary history. Fee: \$75

2302 The Emergence of World Civilizations (Cross-listed as ARC 2302)

See ARC 2302 for course information.

2304 Introduction to Biological Anthropology

A survey of the sub-field of biological anthropology, including anthropological genetics, primatology, paleoanthropology, human ecology, and bioarchaeology. Fee: \$50

2305 Cultural Anthropology in the Global Context

An introduction to global cultures with emphasis on socio-economic arrangements, religious beliefs, and responses of indigenous groups to modernization.

2307 Introduction to Archaeology

A survey of archaeology, including the nature of archaeology, what archaeologists do, and major milestones in human cultural evolution.

3301 Science, Society, and Culture

Pre-requisite(s): Upper-level standing or consent of instructor.

Anthropological perspectives on controversial issues in the history of scientific thought as conveyed through original texts, popular films, and cultural critique.

3307 Historical Archaeology (Cross-listed as ARC 3307)

See ARC 3307 for course information.

3308 Methods of Archaeology

Pre-requisite(s): Upper level standing or consent of instructor.

Methods in contemporary archaeology.

3310 Introduction to Linguistics (Cross-listed as ENG 3310 and LING 3310)

See ENG 3310 for course information.

3320 Environment and Human Behavior (Cross-listed as ENV 3320)

Pre-requisite(s): Upper-level standing or consent of instructor.

Interrelationships between cultural and ecological systems, with focus on food production, economic exchange, and religious beliefs.

3331 Human Osteology (Cross-listed as FORS 3331)

Pre-requisite(s): Upper-level standing or consent of instructor.

The detailed examination of the elements of the human skeleton, with an emphasis on identifying and siding individual bones and their bony structures. Fee: \$75

3340 Indigenous Cultures of Modern Mexico and Central America

Pre-requisite(s): Upper-level standing or consent of instructor.

The cultural history of the indigenous peoples of central Mexico, including their adaptation to, and conflict with, forces of modernity.

3350 Native North Americans

A study of the natives of North America including prehistory, cultural development, and contemporary relationships with other cultural ethnic groups.

3351 Ancient Civilizations of Mesoamerica

Pre-requisite(s): Upper-level standing or consent of instructor.

The emergence and evolution of Meso-American civilizations in Mexico and Central America. Focus on Olmecs and Teotihuacan, as well as the Toltecs, Mayas, and Aztecs.

3375 Ethnographic Methods

Pre-requisite(s): Upper-level standing or consent of instructor.

The multiple ethnographic methods used in cultural anthropological field research.

3399 Archaeology of Texas

Pre-requisite(s): Upper-level standing.

Texas prehistory, from the first inhabitants to the arrival of the Europeans. Chronology, theoretical approaches, and regional developments in North America affecting the cultures of the prehistoric peoples of Texas.

3402 Social Statistics (Cross-listed as SOC 3402)

See SOC 3402 for course information.

4199 Senior Thesis I

Pre-requisite(s): Senior standing in anthropology major.

Thesis project planning, including topic identification, literature review, bibliography compilation, and thesis proposal.

4299 Senior Thesis II

Pre-requisite(s): Senior standing in anthropology major.

Primary data collection, processing, and analysis, culminating in the thesis.

4302 Archaeological Theory

Pre-requisite(s): Upper-level standing or consent of instructor.

Use of archaeological data in reconstruction of past human cultural systems, with an emphasis on the role of archaeological theory in the process of interpretation. Fee: \$50

4305 Anthropological Theory

Pre-requisite(s): Upper-level standing or consent of instructor.

Theoretical approaches to modern-day anthropology, with emphasis on political economy, Marxism, hermeneutics, ecology, and feminism.

4306 Economic Anthropology (Cross-listed as ENV 4306)

Pre-requisite(s): ANT 2305 or consent of instructor.

Traditional food production systems worldwide are compared to patterns in modern capitalist societies.

4310 Societies and Cultures of East Asia (Cross-listed as AST 4310)

Cultural traits and social structures of China, Korea, and Japan in the context of their development from the traditional to the modern. Special attention on Japanese society in comparison with American society.

4311 World Food Problems (Cross-listed as ENV 4310)

See course information for ENV 4310.

4312 Societies and Cultures of Africa

Current social issues and policies in the light of historical and cultural foundations of selected African countries.

4314 Human Biological Variation

Pre-requisite(s): Upper level standing or consent of instructor.

Mechanisms that contribute to biological diversity between and among human populations with particular emphasis on the genetic basis of variation.

4320 Culture, Personality and Identity (Cross-listed as SOC 4320)

Pre-requisite(s): Upper-level standing or consent of instructor.

A thorough investigation of the relationship between the individual and culture/society, with emphasis on the "culture and personality" school of contemporary humanistic social science.

4321 Climate Anthropology (Cross-listed as ENV 4322)

Pre-requisite(s): Upper-level standing or consent of instructor.

An introduction to the causes and effects of climate change as it relates to people and power, ethics and morals, environmental costs and justice, and cultural and spiritual survival.

4325 Medical Anthropology

Biological and sociocultural aspects of human health, disease, development, aging, and health care. Especially emphasized are the developmental, holistic, and cross-cultural perspectives on disease and the life cycle.

4327 Human Catastrophe and Cultural Response (Cross-listed as ENV 4327)

Impact of major catastrophes on human society with emphasis on coping strategies and the utility of disaster theory to help in the recovery process. Issues include disaster, toxic disaster, famine, epidemic, war and natural oppression.

4330 Epidemiology

Pre-requisite(s): Some facility with quantitative methods, preferably with elementary knowledge of statistics.

Epidemiological concepts and skills pertinent to the understanding of diseases. Assessment of cultural, ecological, environmental, occupational, and behavioral factors.

4333 Formal Decision Analysis & Health Policy

Pre-requisite(s): ANT 4325, ANT 4330 or consent of instructor.

Introduction to formal decision analysis, the administrative allocation of scarce resources in health care, and the application of decision-making strategies in public policy among indigenous peoples.

4335 The Human Fossil Record

Pre-requisite(s): Upper-level standing or instructor consent.

Seminar on the evolutionary history of humans. Emphasis on fossil evidence and primary texts.

4340 Environmental Archaeology (Cross-listed as ARC 4340 and ENV 4340)

Pre-requisite(s): Upper-level standing or consent of instructor.

Distributional patterns of archaeological sites within specific environments. Archaeological/environmental field work in Texas, with respect to recent conservation laws protecting nonrenewable archaeological resources.

4341 Archaeology of the Mediterranean

Pre-requisite(s): Upper-level standing.

Environmental and cultural factors that led to the rise and fall of civilizations in the Mediterranean region.

4344 African Archaeology

Pre-requisite(s): Upper-level standing.

A survey of the African archaeological record, from emergence of stone tool technology 2.6 million years ago to the rise of complex civilizations and the African Diaspora.

4348 Geoarchaeology (Cross-listed as GEO 4348)

See GEO 4348 for course information.

4350 Development and Indigenous People (Cross-listed as ENV 4350)

See ENV 4350 for course information.

4351 Futuristics (Cross-listed as ENV 4351)

Pre-requisite(s): Upper-level standing or consent of instructor.

Biological and cultural forces that will likely shape humankind's future. Emphasis on trends in demography, globalization, science, and technology.

4353 Archaeology of North America (Cross-listed ARC 4353)

An archaeological survey of human societies in the United States and Canada from their earliest appearance in the New World to the arrival of Europeans. One-third of the course will focus on historical archaeology.

4355 Forensic Anthropology (Cross-listed as FORS 4355)

Pre-requisite(s): ANT 3331 or FORS 3331.

Forensic anthropological techniques used in civil and criminal court cases, including analysis of skeletal material for sex, age, stature, and biological affinity. Fee: \$100

4358 Death, Injury and Physical Remains (Cross-listed as FORS 4359)

See FORS 4359 for course information.

4360 Anthropology of Religion

Pre-requisite(s): Upper-level standing or consent of instructor.

Myth, ritual and religion in social and cultural anthropology. Emphasis on structural and functional analysis, including critiques of pertinent classical and contemporary works.

4361 Ethnographic and Analytical Methods in Ethnomusicology (Cross-listed as MUS 4360)

See MUS 4360 for course information.

4362 Applied Anthropology (Cross-listed as ENV 4362)

Pre-requisite(s): Upper level standing or consent of instructor.

An introduction to applied anthropology where major research components are identified and specific fields such as medical, nutritional, environmental anthropology, and Third World development are discussed.

4365 Primate Behavior

Pre-requisite(s): Upper-level standing or consent of instructor.

The complex social behavior of primates. Includes field trips. Graduate students produce a comprehensive research paper.

4369 Seminar in Anthropology (Cross-listed as ENV 4369)

Pre-requisite(s): Consent of instructor.

Debate of current theoretical issues that reflect the continually changing nature of the discipline. Students will address all sides of a currently debated issue, drawing upon their studies in anthropology and related fields. Faculty participation.

4371 Evolutionary Medicine

Pre-requisite(s): Upper level standing or instructor consent.

Application of evolutionary theory to medicine using insights from evolutionary theory (biology) and human evolutionary ecology (biological and cultural anthropology) to inform our understandings of human health, development, and disease. Fee: \$50

4372 Sex, Hormones, and Behavior: Human Reproductive Ecology

Pre-requisite(s): Upper level standing or instructor consent.

Recent developments in human reproductive biology, human reproductive ecology, and fertility analysis. The major features of the human reproductive process are considered using a combination of demographic, physiological and evolutionary approaches. Fee: \$50

4373 One Health: Connecting Global Health and Conservation Medicine

Pre-requisite(s): Upper level standing or consent of instructor.

Analysis of the collaborative efforts among physicians, public health professionals, veterinarians, and social scientists to understand infectious disease exchange at the interface of human, wildlife, and livestock populations, and the varying ecological and cultural contexts in which these disease spillovers take place.

4380 Bioarchaeology

Pre-requisite(s): ANT 3331 or FORS 3331.

Advanced osteological approaches to the study of human skeletal remains from archaeological sites, with an emphasis on the study of human diet and health in prehistory. Fee: \$50

43C9 Anthropology Capstone

Pre-requisite(s): ANT 1404, 2305, and 2307; and senior standing.

Integration of knowledge and experiences acquired from anthropology courses, research, and field school.

4416 Human Evolutionary Anatomy

Co-requisite: ANT 4116

Pre-requisite(s): Consent of instructor; upper-level standing.

Survey of regional and systemic human anatomy viewed from a comparative evolutionary perspective. Non-human primate and non-primate vertebrates will be used to illustrate the unique characteristics of human anatomical structures that have been honed by natural selection throughout our evolutionary history. Fee: \$75

4670 Field School in Archaeology

Pre-requisite(s): Consent of instructor.

Field training in archaeological excavation, survey, artifact processing, and analysis of material culture.

4680 Field School in Cultural Anthropology (Cross-listed as ENV 4680)

Pre-requisite(s): Consent of instructor.

Residence for five to six weeks in a selected area to observe and analyze social, economic, and environmental systems.

4690 Field School in Biological Anthropology

Pre-requisite(s): Consent of instructor.

Training in research techniques to gain an understanding of the methodology and its application in field research in various topics related to biological anthropology.

4V15 Research Methods in Cultural Anthropology 3 to 6 sem. hrs.

Pre-requisite(s): Consent of instructor.

Lecture and field experience in the methods and techniques of social and cultural anthropology. May be repeated for a total of six semester hours with different topics.

4V16 Archaeological Research (Cross-listed as ARC 4V16)

3 to 6 sem. hrs.

Pre-requisite(s): Consent of instructor.

Independent library and lab research focused on a current topic in archaeology. May be repeated for a total of six semester hours with different topics.

4V17 Research Methods in Biological Anthropology 1 to 6 sem. hrs.

Pre-requisite(s): Upper-level standing or consent of instructor.

Lecture and lab experience in the methods and techniques of biological anthropological research. May be repeated for a total of six semester hours with different topics. Fee: \$100

4V20 Epidemiological Research Design 1 to 6 sem. hrs.

Pre-requisite(s): Upper level standing and instructor consent.

Application of epidemiological skills and methods to research questions. Emphasis on designing studies that will address real world clinical problems in cross-cultural context. May be repeated for a maximum of 6 hours.

4V70 Special Topics in Anthropology 1 to 6 sem. hrs.

Pre-requisite(s): Consent of instructor.

A reading-research project in selected areas of ethnology, archaeology, or physical anthropology. May be repeated for credit up to a total of six semester hours, provided topic is different.

Apparel Design & Merchandising (ADM)

1241 Apparel Aesthetics

Pre-requisite(s): For apparel merchandising and apparel design majors.

Study of the aesthetic elements and principles of apparel design and visual merchandising, including value, color, light, line, shape, mass, texture, space, complexity, order, and the Gestalt theory as it relates to design.

1300 Fashion Theory and Consumer Behavior

Contemporary apparel consumption behavior and its economic impact in view of social and psychological fashion theories.

1311 Apparel Design Construction

Creative design studio introducing professional construction techniques, product development, and techniques of sketching and creating ready-to-wear garments. (0-6) Fee: \$65

1321 Apparel Design & Development

Pre-requisite(s): A minimum grade of C in ADM 1311.

Apparel construction techniques including knitwear, basic pattern design, creative design including fabric manipulation, felting, machine embroidery, and various other embellishment processes used to address the aesthetic requirements of the end consumer. (0-6) Fee: \$75

1391 Introduction to the Apparel Industry

Comprehensive overview of the apparel industry, including trend research, design, product development, merchandising, sourcing, manufacturing, distribution, retail management, and career opportunities.

2310 Textile Science

Pre-requisite(s): Either CHE 1300 and 1100, or CHE 1405.

The structure and performance of fabrics; examination of fibers, yarns, fabrication finishes, and the processes used to enhance the aesthetics and functional aspects of the fabrics. (2-2) Fee: \$70

2311 Fashion Illustration

Pre-requisite(s): A minimum grade of C in ADM 1241 or concurrent enrollment.

Technical sketching and fashion illustration techniques using a variety of media. (0-6) Fee: \$65

2371 Apparel Quality Analysis

Study of factors which affect the wholesale cost, specification buying, and merchandise selection category. (3-0)

2373 Intermediate Apparel Studio

Pre-requisite(s): A minimum grade of C in ADM 1321.

Apparel design using the principles of flat pattern with emphasis on the design, fit, alteration, and construction of fashionable wearing apparel. (0-6) Fee: \$70

3301 Contemporary Tailoring and Design

Pre-requisite(s): A minimum grade of C in ADM 1241 and 2373.

Provides industry methods for design, flat pattern, and mass production of tailored garments with a strong emphasis on wool fabrics. (0-6) Fee: \$70

3361 Apparel Merchandising Technology

Pre-requisite(s): A grade of C or better in ADM 2311.

Use of software to conceptualize fashion designs and create industry-standard merchandising materials and presentations. (0-6) Fee: \$85

3363 Product Development & Pattern Design Technology

Pre-requisite(s): A minimum grade of C in ADM 2373.

Use of digital technology for apparel design, product development and pattern creation. (0-6) Fee: \$85.

3364 History of Dress

Pre-requisite(s): A minimum grade of C in ADM 1241 and 2310.

The history of dress from ancient times through the twentieth century, examining dress in the context of social, economic, and artistic development of Western culture. (3-0)

3365 Global Dress and Culture

Pre-requisite(s): ADM 1241.

Summer study tour with an emphasis on fashion as a system of design and production, fashion change, commerce and the intersections of fashion changes and trends in art, society and culture from a global perspective.

3373 Advanced Apparel Studio

Pre-requisite(s): A minimum grade of C in ADM 2310, 2311, 3301, and 3363.

Creative designing; integrating and contrasting theories of advanced pattern design and construction techniques for ready-to-wear using a variety of fabrics for specific markets. (0-6) Fee: \$70

3391 Apparel Financial Control

Pre-requisite(s): BUS 1305 and ACC 2301 with a minimum grade of C in both courses.

Fundamental principles of merchandising: theory and quantitative analysis of inventory, planning, pricing, and control for the profitable management of retail environments. (3-0)

3393 Visual Merchandising and Promotion

Pre-requisite(s): A minimum grade of C in ADM 1241.

Study of display elements and techniques, visual merchandising, special event strategies, public relations, and internet promotions. (3-0)

3396 International Fashion Forecasting

Pre-requisite(s): A minimum grade of C in one of the following courses: ADM 1241, ADM 1300 or ADM 1391.

Influence of culture, economics and politics on fashion trends in a society from a global perspective in a study abroad program. Students may not receive credit for both ADM 3396 and ADM 4396.

3V90 Pre-Professional Internship**1 to 3 sem. hrs.**

Pre-requisite(s): Consent of the instructor through an application process in the prior semester.

Optional, variable credit (1-3 hours), pre-professional internship or practicum experience pertinent to apparel design or merchandising majors taken prior to the required professional internship (ADM 4392 or 4394). May not be substituted for the required internship course. Open also to GFCS majors and merchandising minors with instructor permission. Course may be repeated for up to three semester hours of credit.

4132 Apparel Industry Field Study

Pre-requisite(s): Three semester hours of clothing or textiles.

Field study of the textile and apparel industry. May be repeated once.

4190 Pre-Internship Seminar for Apparel Merchandising and Apparel Design Majors

Pre-requisite(s): Apparel Merchandising and Apparel Design majors only; Junior level standing; within 1-2 semesters of internship course and completing internship.

The study and preparation for the internship experience. Application of professional skills related to various forms of written and verbal communication, interview techniques, and ethics.

4232 Apparel Industry Field Study

Pre-requisite(s): Three semester hours of clothing or textiles.

Study and research of selected designers, retailers, or manufacturing firms. May be repeated once.

4310 Textiles and Apparel in a Global Economy

Pre-requisite(s): A minimum grade of C in ADM 3391, ECO 1305 or consent of instructor.

A study of global textile and apparel industries including the effects and involvement of the global market on the production and merchandising of U.S. textiles and apparel. (3-0)

4312 Textile Testing and Analysis

Pre-requisite(s): A minimum grade of C in ADM 2310 and CHE 1405.

Standards, specifications and principles of testing applied to textile products. Theory and analysis of aesthetic, durability, comfort and functional performance of textiles. Application of research principles in testing and analysis of textile products (2-4) Fee: \$70

4363 Apparel Design Technology

Pre-requisite(s): A minimum grade of C in ADM 2311 and 3363.

Use of software and technology to create apparel color stories, sketches, fabric designs, construction details drawings, merchandising materials, and product specifications. (0-6) Fee: \$85

4371 Advanced Collection Development

Pre-requisite(s): A minimum grade of C in ADM 3373 and 4363.

Research, planning, and development of a cohesive apparel collection for a target market incorporating industry standards and techniques. (0-6) Fee: \$85

4391 Merchandising Buying and Assortment Planning

Pre-requisite(s): A grade of C or better in ADM 3391.

Retail buying including assortment planning, inventory control, and the use of social media.

4392 Apparel Merchandising Internship

Pre-requisite(s): A minimum grade of C in ADM 2310, ADM 3391, 3393 and 4190.

Field experience in apparel retailing, sales, management, buying, visual display and promotion, and distribution. Required campus seminars and a required minimum of 240 hours.

4393 Case Studies in Apparel and Retailing

Pre-requisite(s): A minimum grade of C in ADM 3391 and senior standing or approval of instructor.

Analysis of current events and topical issues in apparel merchandising. Applied problem-solving through case studies related to apparel sourcing, retailing, and other merchandising functions.

4394 Apparel Design Internship

Pre-requisite(s): A minimum grade of C in ADM 2310, 3363, 3373, and 4190.

Supervised professional field experience with an approved apparel firm designed to integrate academic learning with professional practice. Required campus seminars and a minimum of 240 hours field experience.

4396 Fashion Trend Analysis and Forecasting

Pre-requisite(s): A minimum grade of C in ADM 2310.

Analysis of demographics, psychographics, geodemographics, and popular culture on consumption patterns of consumers. Fee: \$50

Arabic (ARB)

1401 Elementary Spoken/Modern Standard Arabic

Introduction to Arabic language and culture: pronunciation, grammar, conversation, and reading of simple texts. Fee: \$50

1402 Elementary Spoken/Modern Standard Arabic

Pre-requisite(s): ARB 1401 or two units of high school Arabic.

Continuation of ARB 1401. Fee: \$50

2310 Intermediate Spoken/Modern Standard Arabic

Pre-requisite(s): ARB 1402 or three units of high school Arabic.

Conversation, composition, cultural readings, and grammar reviews.
Fee: \$50

2320 Intermediate Spoken/Modern Standard Arabic

Pre-requisite(s): ARB 2310 or four units of high school Arabic.

Continuation of ARB 2310. Fee: \$50

3301 Advanced Arabic Grammar

Pre-requisite(s): ARB 2320 or consent of instructor or Division Director.

Review of grammar and study of advanced structures in complex communication.

3302 Arabic Conversation and Composition

Pre-requisite(s): ARB 2320.

Advanced practice in oral and written communication.

3304 Advanced Topics in Arabic Language and Literature

Pre-requisite(s): ARB 3302.

Development of advanced skills in areas of writing, reading aloud, and listening in Modern Standard Arabic, on topics of general and professional interests, including aspects of Arabic culture and literature.

3305 Arabic for Special Purposes

Pre-requisite(s): ARB 2320 or consent of instructor or Division Director.

Business, technical, and/or scientific discourses in the context of the Arabic language and Middle Eastern cultures.

3V70 Special Topics

1 to 3 sem. hrs.

Pre-requisite(s)/s: Consent of instructor and Division Director of Asian and African Languages, in the department of Modern Foreign Languages.

Independent study in Arabic Language, literature, or culture with a professor. With content changed, this course may be repeated once for a maximum of six hours of credit.

4331 Classical Arabic Texts

Pre-requisite(s): ARB 3301, 3302, 3304, or 3305, or consent of instructor or Division Director.

Ideals and traditions of poetry and prose from the sixth to the nineteenth century, using sacred scriptures, early oratory, and masterpieces from the Near East, Egypt, and North Africa.

4345 Media and Popular Culture in the Arabic-Speaking World

Pre-requisite(s): ARB 3301, 3302, 3304, or 3305; or consent of instructor or Division Director.

Current newspaper and magazine articles, radio broadcasts, and a variety of multimedia used to increase language skills and understanding of contemporary Arabic-speaking popular culture.

Aramaic (ARA)

4303 Aramaic (Cross-listed as REL 4303)

Pre-requisite(s): HEB 2310 or its equivalent.

Grammar of Biblical Aramaic and of selected Aramaic portions of the Old Testament with a brief introduction to post-Biblical Aramaic materials.

Archaeology (ARC)

2302 The Emergence of World Civilizations

Cultural processes involved in both the Neolithic and Urban Revolutions that led to the emergence of state-level societies and the world's greatest civilizations.

2308 Historical Geography of the Biblical World

An in-depth study of the world of biblical times with emphasis on relationships between places and events. The course will involve readings, lectures, and both travel to and archaeological study of important sites in biblical history.

3303 Archaeology and the Bible (Cross-listed as REL 3303)

See REL 3303 for course information.

3307 Historical Archaeology (Cross-listed as ANT 3307)

Pre-requisite(s): Upper-level standing or consent of instructor.

Integration of archaeological investigation with primary historical sources as applied to subjects ranging from colonial to modern times.

4101 Seminar/Research

A combination of group seminars and individual or group research projects.

4302 Archaeology and the Ancient Near East (Cross-listed as REL 4302)

See REL 4302 for course information.

4340 Environmental Archaeology (Cross-listed as ANT 4340 and ENV 4340)

See ANT 4340 for course information.

4348 Geoarchaeology (Cross-listed as ANT 4348)

See GEO 4348 for course information.

4353 Archaeology of North America (Cross-listed as ANT 4353)

See ANT 4353 for course information.

4V16 Archaeological Research (Cross-listed as ANT 4V16)

3 to 6 sem. hrs.

See ANT 4V16 for course information.

4V50 Special Topics in Archaeology

1 to 4 sem. hrs.

Pre-requisite(s): Consent of instructor.

Current topics in archaeological research. May be repeated once for credit up to a total of six semester hours provided topic is different.

Art (ART)

Art History Courses (ART)

1300 Introduction to Art (for non-art majors only)

Critical analysis of selected examples of architecture, painting, and sculpture (for non-art majors only). (Applicable toward fine arts humanities requirements for Bachelor of Arts degree.)

1V91 Studies in Art History (for non-art majors only) 1 to 4 sem. hrs.

Pre-requisite(s): Consent of department chair.

Studies in art history for the non-major participating in a Baylor approved international program. May be repeated once with a change in content.

2302 History of Art I

Architecture, sculpture, painting, and the minor arts in relation to styles and culture patterns from prehistoric times to ca. A.D. 1400.

2303 History of Art II

Architecture, sculpture, painting, and the minor arts in relation to styles and culture patterns from A.D. 1400 to the present time.

3352 Greek Art (Cross-listed as CLA 3352)

Pre-requisite(s): ART 2302 and 2303.

A survey of Greek art from its beginnings through the first century B.C. with emphasis on stylistic developments, the contributions of known artists, and the relationship between art and various aspects of Greek life and thought.

3353 Roman Art (Cross-listed as CLA 3353)

Pre-requisite(s): ART 2302 and 2303.

A study of Roman art from the Republic to around A.D. 330 with special consideration given to an analysis of its artistic forms and their social and political meaning.

3354 Medieval Art

Pre-requisite(s): ART 2302 and 2303.

Architecture, sculpture, and painting from the fourth to the fourteenth centuries with emphasis on artistic forms as expressions of and influences upon the intellectual, spiritual, social, and political aspects of medieval life.

3356 Nineteenth Century European Art - AAI

Pre-requisite(s): ART 2302 and 2303.

Art of nineteenth century Europe with emphasis on developments in France, Germany, and England from Romanticism through Post-Impressionism.

3357 Baroque Art

Pre-requisite(s): ART 2302 and 2303.

Art of Italy, France, Flanders, Holland, and Spain in the seventeenth century.

3358 History of Impressionism and Post-Impressionism - AAI

Pre-requisite(s): ART 2302 and 2303; For Art majors only.

Evolution of European Impressionism and Post-Impressionist reactions.

3359 Northern Renaissance Art

Pre-requisite(s): ART 2302 and 2303

Art of northern Europe in the fifteenth and sixteenth centuries. Special attention will be given to the painters Van Eyck, Dürer, and Bruegel.

3360 Greek Painted Pottery (Cross-listed as CLA 3360)

Pre-requisite(s): ART 2302 or consent of instructor. ART 3352 is recommended.

Techniques and stylistic development of Greek painted pottery from the Late Aegean Bronze Age through the Late Classical and Early Hellenistic periods.

3361 Roman Sculpture (Cross-listed as CLA 3361)

Pre-requisite(s): ART 2302 and 2303. ART 3353 is recommended.

Roman sculpture from the Republic to Constantine (AD 313) focusing on style and technique with political and social contexts.

3369 Eighteenth-Century European Art - AAI

Pre-requisite(s): ART 2302 and 2303; and upper-level standing or consent of instructor.

Art of eighteenth-century Europe focusing on technique and style with political and social contexts.

3370 Key Monuments in European Art

Pre-requisite(s): ART 2302 and 2303.

Selected examples of art studies in situ in art centers of Europe, supplemented by readings, lectures, and collected illustrations and catalogs.

3375 Art History Methods and Theory

Pre-requisite(s): ART 2302 and 2303.

Primary methods and theories used in the study of the history of art.

3390 Philosophy and the Arts (Cross-listed as PHI 3322)

See PHI 3322 for course information.

4100 Field Studies in Art History - AAI

Co-requisite(s): ART 3356 or 3358, 4355, 4357, 4358 or 4362.

Pre-requisite(s): ART 2302 and 2303; and consent of department chair. For Art majors only.

Students with established success in art history research and report on special areas or topics in art history relevant to group destination. Requires concurrent enrollment in one of the courses listed and group travel to designated destination. May repeat for a maximum of four hours with a change in content. Course will not apply on a major or minor.

4354 Special Topics in 18th- and 19th-Century Art - AAI

Pre-requisite(s): ART 2302 and 2303; and upper-level standing or consent of instructor.

A research seminar on a selected topic of 18th- or 19th-century art. Subject varies year to year. May be repeated once with a change in content.

4355 Special Topics in Early Modern Art - AAI

Pre-requisite(s): ART 2302 and 2303; and upper-level standing.

A research seminar on a selected major artist or topic of early modern European art. Subject varies year to year. May be repeated once with a change in content.

4356 Modern American Art - AAI

Pre-requisite(s): ART 2302 and 2303; upper-level standing.

Artistic expression in the United States from 1900 to 1945.

4357 American Art - AAI

Pre-requisite(s): ART 2302 and 2303; and upper-level standing.

Artistic expression in the United States from the Colonial Period to 1900.

4358 Contemporary Art - AAI

Pre-requisite(s): ART 2302 and 2303; and upper-level standing.

American and European painting and sculpture from 1945 to the present.

4359 Special Topics in Art History

Pre-requisite(s): ART 2302 and 2303; and upper-level standing.

Topics not covered in other courses. Topic announced for semester or session; may emphasize a particular artist, movement, genre, theme, or problem. May be repeated once.

4362 Modern European Art - AAI

Pre-requisite(s): ART 2302 and 2303; and upper-level standing.

Modern art in Europe from Post-Impressionism to 1945.

4363 Neoclassicism and Romanticism - AAI

Pre-requisite(s): ART 2302 and 2303; and upper-level standing or consent of instructor.

Art of the Neoclassicism and Romanticism movements, 1750-1850, focusing on technique and style with social and political contexts.

4365 Italian Renaissance Art

Pre-requisite(s): ART 2302 and 2303; and upper-level standing.

The major arts in Italy from the thirteenth to the sixteenth centuries with emphasis on sculpture and painting.

4366 Mannerism

Pre-requisite(s): ART 2302 and 2303.

A seminar on the Mannerist style (c.1520-85) of painting as a transition between the Renaissance and Baroque periods in Italy. Emphasis on the cities of Florence and Rome.

4367 Special Topics in Italian Renaissance and Baroque Art

Pre-requisite(s): Art 2302 and 2303; and upper-level standing or consent of instructor.

A research seminar on a selected major artist(s) or topic of Italian Renaissance or Baroque art. Subject varies year to year. May be repeated once with a change of content.

4368 Special Topics in Greek and Roman Art (Cross-listed as CLA 4368)

Pre-requisite(s): ART 2302 and 2303; and upper-level standing or consent of instructor.

A research seminar on Greek or Roman Art and Architecture. May be repeated once with a change of content.

4369 Greek and Roman Sport and Spectacle (Cross-listed as CLA 4369)

Pre-requisite(s): ART 2302 or consent of instructor. Either ART 3352 or 3353 is recommended.

History, origins, and political and social functions of sport and spectacle in Greece and Rome viewed through art, architecture, and material culture.

4370 The Art of Michelangelo

Pre-requisite(s): ART 2302 and 2303; and upper-level standing.

Sources, development, style, and meaning within the historical context of Michelangelo's art.

4396 Internship in Art History

Pre-requisite(s): Consent of department chair.

A field experience under the supervision of qualified museum or gallery personnel, which will make it possible for the student to receive on-the-job training in an area of art history.

4399 Senior Thesis in Art History

Pre-requisite(s): Consent of instructor and department chair.

Thesis preparing qualified seniors for graduate work in art history.

43C1 Aesthetic Perception and Experience (Cross-listed as ENG 43C1 and MUS 43C1)

See ENG 43C1 for course information.

4V91 Special Problems in Art History 1 to 9 sem. hrs.

Pre-requisite(s): ART 2302 and 2303; and upper-level standing; and consent of instructor and department chair. For Art majors only.

Qualified students with established success in art history may research and report on special areas or topics in art history. May be repeated once with a change in content.

Studio Courses (ART)

1310 Drawing I

Realization of content and form using a variety of drawing media and subjects. Emphasis on draftsmanship and personal statements; introduction to perspective. Fee: \$50

1311 Drawing II

Pre-requisite(s): ART 1310.

Continuation of ART 1310. Gestural drawing will be stressed along with study of composition, structure, and development of images from a quick study into a more finished product. Emphasis on ability to draw quickly and with expression and accuracy. Fee: \$50

1314 Design IA (Two-dimensional)

Lines, shapes, values, colors, and textures in unified and varied organizations. Emphasis on imaginative development of spatial feeling, transitions, contrasts, and compositions. Fee: \$50

1316 Design IB (Three-dimensional)

Pre-requisite(s): ART 1314. Art majors only.

Three dimensional, exploring form, space, line, surface and texture. Students engage in problem solving assignments using basic processes of carving, modeling, casting and construction. Fee: \$50

2310 Figure Drawing I

Pre-requisite(s): ART 1311 and Art majors only.

Studies of the human figure to secure structure and relationships. Emphasis on anatomy, tensions, and movement. Fee: \$50

2311 Figure Drawing II

Pre-requisite(s): ART 2310.

Advanced studies of the human figure with more dependence upon anatomy and complicated figure arrangement. Fee: \$50

2320 Introduction to Oil Painting (for non-art majors only)

An introductory course in oil painting concepts covering a broad range of subject matter. The importance of brush stroke, color harmony, sound techniques, and composition is stressed through painting problems. Instruction includes group critiques and personal criticism. Fee: \$50

2321 Introduction to Acrylic Painting (for non-art majors only)

An introductory course in acrylic painting using a wide variety of subjects and approaches. The significances of technique and concept are emphasized by studio and outside work. Instruction includes both group and personal evaluations. Fee: \$50

2324 Introduction to Intaglio (for non-art majors only)

An introduction to etching and related intaglio processes. Technical skills related to drawing, processing, and printing will be studied. Fee: \$50

2325 Introduction to Lithography (for non-art majors only)

An introduction to stone lithography. Technical skills related to processing and printing the lithograph will be studied. Fee: \$50

2330 Introduction to Graphic Design (for non-art majors only)

Graphic design principles, typography, and print production. Fee: \$50

2332 Computer Aided Graphic Design (for non-art majors only)

Pre-requisite(s): ART 2330 or consent of instructor.

Introduction to the desktop computer as an artistic tool for typesetting, graphic design, and illustration. Fee: \$50

2333 Graphic Communication (for non-art majors only)

Pre-requisite(s): ART 2332 or consent of instructor.

Traditional and computer aided techniques for the design and production of posters, folders, advertisements, and magazines. Fee: \$50

2334 Introduction to the Camera and Black and White Darkroom

Pre-requisite(s): For non-art majors only.

Black and white fine art photography, emphasizing 35mm cameras and wet lab darkroom processes. Cameras provided. Fee: \$50

2336 Digital Photography for Non-Majors

An introduction to digital cameras, color, and the digital lab. Students supply their own digital cameras. Fee: \$50

2340 Ceramic Design IA (for non-art majors only)

Designing, shaping, decorating, glazing, and firing of clay forms such as tiles, pottery, and figures. Fee: \$50

2341 Ceramic Design IB (for non-art majors only)

Pre-requisite(s): ART 2340.

A continuation of ART 2340 with emphasis upon creative aspects of the medium. Fee: \$50

2344 Sculpture IA/Wood (for non-art majors only)

Form, mass, structure, surface and scale using wood as the primary medium. Emphasis on construction, carving, bending and joinery through problem solving assignments. Fee: \$50

2345 Sculpture IB/Metal (for non-art majors only)

Pre-requisite(s): ART 2344.

Form, mass, structure, surface and scale using steel as the primary medium. Emphasis on welding construction, forging and shaping through problem solving assignments. Fee: \$50

2350 Jewelry and Metalsmithing IA

(for non-art majors only)

Study in the elementary design and techniques for the creation of jewelry and metals including lapidary, metal fabrication, combining of different materials, and lost wax casting. Fee: \$50

3310 Advanced Drawing (Media)

Pre-requisite(s): ART 2311.

A study of various techniques and different media used in drawing. Students will work on problems that will assist them in further drawing skills. Fee: \$50

3312 Figure Drawing III

Pre-requisite(s): ART 2311.

A continuation of the study and discipline of drawing the human figure using a variety of media including pencil, charcoal, and ink. Fee: \$50

3314 Fabric Surface Design

Pre-requisite(s): ART 1316 and Art majors only.

Introduction to applied fabric surface design treatments. Hand printed, dyeing, and embellishing techniques include tie-dye/shibori, discharge, appliqué, patchwork, embroidery and art quilt methods. Fee: \$50

3315 Non-Woven Fiber/Fabric Structures

Pre-requisite(s): ART 1316 and Art majors only.

Investigation of historical and contemporary basketry techniques, felting, beading and other non-loom produced fiber/fabric constructions. Emphasis on expressing three-dimensional ideas. Fee: \$50

3316 Weaving

Pre-requisite(s): ART 1316. For Art majors only.

Introduction to loom weaving through the study of weave structures, fiber types and color relationships. Development of technical skill and design competency. Fee: \$50

3320 Oil Painting

Pre-requisite(s): ART 1316 and 2310. For Art majors only.

Introductory course in painting with oil, working with concepts covering a wide range of subjects. Group and individual critiques concern the importance of brushstroke, color harmony, technical factors, and composition. Fee: \$50

3321 Acrylic Painting

Pre-requisite(s): ART 1316 and 2310; Art majors only.

Continuation of ART 2321 with emphasis on the acrylic medium. Instruction includes both group and individual criticism. Fee: \$50

3324 Intaglio

Pre-requisite(s): ART 1316 and 2310. For Art majors only.

An introduction to etching and the other related intaglio processes. Technical skills related to drawing, processing, and printing will be studied. Fee: \$50

3325 Lithography

Pre-requisite(s): ART 1316 and 2310; Art majors only.

An introduction to stone lithography. Technical skills related to processing and printing the lithograph will be studied. Fee: \$50

3326 Woodcut

Pre-requisite(s): ART 1316 and 2310. For Art majors only.

A study of relief printmaking. Emphasis will be given to the skills involved in cutting and printing the wood block. Fee: \$50

3327 Silkscreen

Pre-requisite(s): ART 1316 and 2310. For Art majors only.

An introduction to silkscreen printing. Technical methods involved in processing and printing will be studied. Fee: \$50

3330 Design Methods

Pre-requisite(s): ART 1314 and Art majors only.

Introduction to graphic design principles, creative process, problem-solving methodologies, theory, and conceptual development. Fee: \$50

3332 Digital Media for Graphic Design

Pre-requisite(s): ART 3330 or art department approval. For Art majors only.

The digital tools and requirements that assist in the solution and execution of graphic design problems. Fee: \$50

3333 Type and Image

Pre-requisite(s): ART 3332 and Art majors only.

An intermediate exploration of the combination of type and image emphasizing hierarchy, layout, grid, and other organizational structures of design. Fee: \$50

3334 Photography I: Introduction to the Camera and Darkroom

Pre-requisite(s): ART 1314; for art majors only.

Black and white fine art photography, emphasizing 35-mm cameras and wet lab darkroom processes. Regular critiques, historical and contemporary readings. Cameras provided. Fee: \$50

3336 Photography II: Introduction to Digital Photography and the Digital Lab

Pre-requisite(s): ART 3334 and Art majors only.

Digital cameras, color, the digital lab, tools and printers. Students produce original work with their own cameras. Fee: \$50

3340 Ceramic Design IIA

Pre-requisite(s): ART 1316 and Art majors only.

An introduction to ceramics exploring various hand-built methods of construction, surface design, and decoration involving the use of glazes and slips, firing, and historical and contemporary aspects of the medium. Fee: \$50

3341 Ceramic Design IIB

Pre-requisite(s): ART 3340 and Art majors only.

A continuation of ART 3340. Fee: \$50

3344 Sculpture IIA/Wood

Pre-requisite(s): ART 1316. For Art majors only.

Form, mass, structure, surface and scale using wood as the primary medium. Emphasis on construction, carving, bending and joinery through problem solving assignments. Fee: \$50

3345 Sculpture IIB/Metal

Pre-requisite(s): ART 1316 and Art majors only.

Form, mass, structure, surface and scale using steel as the primary sculpture medium. Emphasis on welding construction, forging and shaping through problem solving assignments. Fee: \$50

3350 Jewelry and Metalsmithing IIA

Pre-requisite(s): ART 1316. For Art majors only.

Study in the elementary design and techniques for the creation of jewelry and metals including lapidary, metal fabrication, combining of different materials, and lost wax casting. Fee: \$50

4312 Figure Drawing IV

Pre-requisite(s): ART 3312. For Art majors only.

Complex problems depicting the human figure using a medium or a combination of media. Emphasis is placed on individual development of skills and creative style. Fee: \$50

4313 Problems in Fabric Design A

Pre-requisite(s): ART 3314 or 3316; upper-level standing; and consent of instructor. For Art majors only.

Study of specific fabric design techniques and/or media selected by student in consultation with instructor. Fee: \$50

4314 Advanced Surface Design

Pre-requisite(s): ART 3314 and consent of instructor; upper-level standing. For Art majors only.

Formal and improvisational screen-printing processes. Emphasis on design and technical competency. Fee: \$50

4316 Problems in Fabric Design B

Pre-requisite(s): Art 3316 or 4314; upper-level standing; and consent of instructor. For Art majors only.

Advanced problems in woven fabric design selected by student in consultation with instructor. Fee: \$50

4320 Watercolor Painting

Pre-requisite(s): ART 1316 and 2310. For Art majors only.

Techniques of the water-based media. Instruction gives much attention to creative style and individual criticism. Fee: \$50

4321 Advanced Painting

Pre-requisite(s): ART 1316, 2310, and either 3320, 3321, or 4320. For Art majors only.

Study of a specific painting medium selected by the student in consultation with the instructor. Fee: \$50

4322 Problems in Painting B

Pre-requisite(s): ART 4321. For Art majors only.

Advanced problems in media selected by the student in consultation with the professor. Fee: \$50

4323 Problems in Painting C

Pre-requisite(s): ART 4321. For Art majors only.

Advanced problems in media selected by the student in consultation with the professor. Fee: \$50

4324 Advanced Intaglio

Pre-requisite(s): ART 3324. For Art majors only.

A continuation of ART 3324 with emphasis upon creative expression with the metal plate. Fee: \$50

4325 Advanced Lithography

Pre-requisite(s): ART 3325. For Art majors only.

A continuation of ART 3325 with emphasis upon the creative aspects of aluminum plate lithography and color printing. Fee: \$50

4329 Web Design

Pre-requisite(s): ART 3333. For Art majors only.

Introduction to internet web page design with emphasis on process, concept, aesthetics, user experience, mark-up languages, and internet access software. Fee: \$50

4330 Illustration

Pre-requisite(s): ART 2310, 3320, 3330 or 4320. For Art majors only.

Illustrative art for graphic design. Emphasis on media, technique, style, and concept in advertising and editorial illustration. Fee: \$50

4331 Package Design

Pre-requisite(s): ART 3332. For Art majors only.

Graphic design concepts applied to the design of three-dimensional form such as packaging, point-of-sale, environmental, and/or exhibition design. Fee: \$50

4332 Identity Design

Pre-requisite(s): ART 3332. For Art majors only.

Introduction to the visual communication of identity development and branding. Emphasis on merging conceptual development with the aesthetic and implementation. Fee: \$50

4333 Portfolio Preparation

Pre-requisite(s): ART 4332. For Art majors only.

Portfolio preparation and management, interviewing, and presentation skills. (Should be taken the last semester prior to graduation.) Fee: \$50

4335 Advanced Photography: Digital

Pre-requisite(s): ART 3336.

Techniques and concepts in fine art digital photography. Cameras not supplied. Fee: \$50

4336 Advanced Photography: Special Topics

Pre-requisite(s): ART 4335. For Art majors only.

Critical integration of foundations, concepts and techniques in photography. Fee: \$50

4337 Advanced Photography: Portfolio and Exhibition

Pre-requisite(s): ART 3334, 4335, and 4336. For art majors only.

Capstone seminar for photography majors; includes creation of a portfolio for BFA exhibition. Fee: \$50

4338 Studio Topics in Graphic Design

Pre-requisite(s): ART 3333. For Art majors only.

A category of topical courses designed to meet special needs, address issues in the professional field, and focus on research and experimentation in specialized media. Fee: \$50

4339 Advanced Photography: Medium and Large Format Photography

Pre-requisite(s): ART 3336. For Art majors only.

Photography with pinhole, medium and large format view cameras, including exposing and processing large format film and fiber-based paper, as well as the history and theories of photography. Fee: \$50

4340 Ceramic Design IIIA

Pre-requisite(s): ART 3341. For Art majors only.

Continuation of ART 3341 with instruction in ceramic materials and glaze formulation. Fee: \$50

4341 Ceramic Design IIIB

Pre-requisite(s): ART 4340. For Art majors only.

Continuation of Art 4340 with instruction in kiln design and construction. Fee: \$50

4342 Ceramic Design IVA

Pre-requisite(s): ART 4341. For Art majors only.

Continuation of ART 4341 with instruction in photo-documentation of completed works. Fee: \$50

4343 Ceramic Design IVB

Pre-requisite(s): ART 4342. For Art majors only.

Continuation and the culmination of ART 4342; development of a cohesive body of ceramic works and completion of a formal photographic portfolio. Fee: \$50

4344 Advanced Sculpture I

Pre-requisite(s): ART 3344 and 3345. For Art majors only.

Sculpture emphasizing the combination of materials, use of alternative materials, scale and presentation, mold making, castable materials, installation, and site-specific work. Fee: \$50

4345 Advanced Sculpture II

Pre-requisite(s): ART 4344. For Art majors only.

Self-directed program in consultation with instructor. Examination of aesthetic issues in contemporary sculpture and the development of a personal vision. Fee: \$50

4346 Advanced Sculpture III

Pre-requisite(s): ART 4345. For Art majors only.

Continuation of ART 4345 plus a portfolio and other materials needed to pursue further development as a visual artist. Fee: \$50

4347 Advanced Sculpture IV

Pre-requisite(s): ART 4346. For Art majors only.

Continuation of ART 4346. Fee: \$50

4395 Internship in Studio Art

Pre-requisite(s): ART 4332; and consent of department chair. For Art majors only.

A field experience under the supervision of a recognized professional artist, which will permit the student to receive concentrated and sufficiently lengthy training to become proficient in that art activity. Fee: \$50

4V90 Special Problems in Studio Art

1 to 9 sem. hrs.

Pre-requisite(s): Written consent of the appropriate instructor. For Art majors only.

Qualified students with established success in specified areas of art, especially their major concentration, may work on approved projects. May be repeated once with a change of content. Fee: \$50

Asian Studies (AST)**2380 The Peoples and Culture of Asia**

An introduction to contemporary Asian economy, politics, and society.

3305 Traditional China (Cross-listed as HIS 3305)

See HIS 3305 for course information.

3307 Japan (Cross-listed as HIS 3307)

See HIS 3307 for course information.

3314 Politics and Problems of Developing Countries (Cross-listed as PSC 3314)

See PSC 3314 for course information.

3315 Geography of East Asia

Pre-requisite(s): Upper-level standing.

Geographical analysis of physical, cultural, economic, and political factors in East Asia, including land and resource usage, population changes, and economic development.

3345 World Religions (Cross-listed as REL 3345)

See REL 3345 for course information.

3390 Special Studies and Projects

Special studies and research projects in Asian studies; prior approval is required. With content changed, this course may be repeated once for a maximum of six semester hours credit.

3V80 Special Topics in Asian Studies 1 to 6 sem. hrs.

A study of special topics relating to Asia. With content changed, this course may be repeated once for a maximum of six semester hours credit.

4305 Modern China (Cross-listed as HIS 4305)

See HIS 4305 for course information.

4310 Societies and Cultures of East Asia (Cross-listed as ANT 4310)

See ANT 4310 for course information.

4325 Asian International Relations (Cross-listed as PSC 4325)

See PSC 4325 for course information.

4335 Asian Economic Development (Cross-listed as ECO 4335 and INB 4335)

See ECO 4335 for course information.

4338 Economic Systems of the World (Cross-listed as ECO 4338 and INB 4338)

See ECO 4338 for course information.

4340 East Asian Philosophy (Cross-listed as PHI 4340)

See PHI 4340 for course information.

4346 Topics in Asian Religions (Cross-listed as REL 4346)

See REL 4346 for course information.

4350 Seminar in Asian Studies

An interdisciplinary seminar focusing on appropriate topics in the field of Asian studies. With content changed, this course may be repeated once for a maximum of six semester hours.

4362 Traditional Music and Culture in Asia (Cross-listed as MUS 4362)

See MUS 4362 for course information.

4364 The Governments and Politics of the Asia-Pacific Region (Cross-listed as PSC 4364)

See PSC 4364 for course information.

4374 Governments and Politics of East Asia (Cross-listed as PSC 4374)

See PSC 4374 for course information.

4376 Asian Literature in Translation (Cross-listed as MFL 4376)

Major writers of the East and their representative works. Course content varies. Readings may emphasize one national literature or survey the significant works in several literatures, stressing the genres and techniques peculiar to several Asian cultures.

4390 Reading Course in Political Science

Pre-requisite(s): Senior standing and the consent of the chairperson of the department.

A tutorial course designed for advanced study in political science.

4V80 Contemporary Issues in Asian Studies 1 to 3 sem. hrs.

Flexible credit options for the study of contemporary issues in Asian studies for upper-level and graduate students. With content changed, this course may be repeated once for a maximum of six semester hours; a maximum of three hours may be earned for graduate credit.

Aviation Management (AVIM)

1371 Control Tower I

Pre-requisite(s): AVIM 1470.

The course will introduce the student to radar and non-radar air traffic control, flight data processing and information handling, pilot-controller communications, Federal Aviation Administration separation standards, controller techniques, and airspace management. Includes radar and non-radar simulation of Air Traffic Control problems.

1375 Introduction to Terminal Operations

This course will provide students with fundamentals of Radar and Non-Radar operations in a terminal environment. Students will learn terminal radar/non-radar team position responsibilities, they will learn and be required to demonstrate the application of various separation minima, altitude assignments, clearances, stripmarking and phraseology, providing for positive control in non-radar environment. Students will also be provided introductory exposure to terminal radar control. This will include, but not be limited to, radar identification, vectoring techniques, merging target procedures, radar separation as well as speed control and beacon code assignment.

1376 Enroute Operations II

This course will provide students with fundamentals of Radar and Non-Radar operations in the enroute environment. Students will learn terminal radar/non-radar team position responsibilities, they will learn and be required to demonstrate the application of various separation minima, altitude assignments, clearances, stripmarking and phraseology, providing for positive control in non-radar environment. Students will also be provided introductory exposure to terminal radar control. This will include, but not be limited to, radar identification, vectoring techniques, merging target procedures, radar separation as well as speed control and beacon code assignment. The course will also introduce the student to Traffic Management and its purpose in National Airspace System.

1377 Enroute Operations I

Pre-requisite(s): AVIM 1470

This course introduces students to air traffic control non-radar procedures, techniques, and rules. Included are aircraft communication, airspace management, non-radar separation standards for arrivals, departures and over flight traffic

1470 Fundamentals of Air Traffic Control

The course will introduce the student to the Air Traffic Control to include a brief story of Air Traffic Control, an introduction to the Federal Aviation Administration, an introduction to the FAAO/JO 710.65, terms of reference, general control, flight progress strips, radio and interphone communications, route and NAVAID description, weather information, altimeter settings, and automatic terminal information service procedures.

2270 Control Tower Operations

This course will provide students with a comprehensive review of airport traffic control procedures, flight rules, communications procedures, flight assistance service, aviation weather, air navigation, aids to air navigation, and enroute procedures that students are required to know to receive a control tower operator certification.

2372 Control Tower II

Pre-requisite(s): AVIM 1371.

Build on student understanding of radar and non-radar air traffic control, including radar and non-radar simulation of Air Traffic Control problems. Emphasize Air Traffic Control operations in and around airports using a Class C airport. Develop controller-controller coordination and pilot-controller communications with emphasis on accurate situation assessment, and specific Air Traffic Control methodology and problem-solving techniques.

2373 Advanced Terminal Operations

Pre-requisite(s): AVIM 2372.

Provide a thorough review of all course objectives to verify student knowledge and student readiness to continue training at the Federal Aviation Administration Air Traffic Control Academy. Reviews will include clearance procedures, controller-controller and pilot-controller communications and coordination, phraseology, data handling, strip marking, aircraft recognition and extensive radar and non-radar scenario practice for enroute control. The course will provide a review of relevant material that graduating students should have mastered in the previous classes.

Aviation Sciences (AVS)**1300 Introduction to Aviation**

A survey of aviation with special attention to the history and impact of aviation on society as well as its technological progress.

1301 Air Navigation

Instruction in Visual Flight rules navigation in the National Airspace System. Topics include sectional charts, flight computers, plotters, and navigation logs and publications. Qualifies as part of a program leading to Federal Aviation Administration Private Pilot certification.

1313 Introduction to Meteorology

Basic atmospheric structure and processes, clouds and precipitation, atmospheric pressure and winds, weather chart analysis, thunderstorms and hurricanes, weather observations and forecasting.

1417 Private Pilot Ground School

Basic ground school for the Federal Aviation Administration Private Pilot Certificate, providing the student with the necessary aeronautical knowledge that can be used for private pilot certification. Topics include principles of flight, radio procedures, weather, navigation, aerodynamics, and Federal Aviation Administration regulations.

1451 Instrument Rating Ground School

Pre-requisite(s): A grade of "C" or better in AVS 1417 or AIRP 1417.

Ground school providing the necessary aeronautical knowledge required to successfully complete the Federal Aviation Administration (FAA) Instrument Rating written exam. Topics include basic radio instrument and navigation fundamentals, navigation systems, navigation instruments, charts used for instrument flight and Federal Aviation Administration regulations pertaining to instrument flight.

1V03 Basic Flight Training**1 to 4 sem. hrs.**

Pre-requisite(s): Consent of department chairperson.

Basic flight training conducted in accordance with Federal Aviation Administration regulations up to private license standards and pre-instrument flight rating requirements. May be repeated for credit provided content is different.

2337 Commercial Pilot Ground School

Pre-requisite(s): A grade of "C" or better in AVS 1451 or AIRP 1451.

Ground school providing the necessary aeronautical knowledge required to successfully complete the Federal Aviation Administration (FAA) Commercial pilot written exam.

2349 Certified Flight Instructor Ground School

Pre-requisite(s): A grade of "C" or better in AVS 2337 or AIRP 2337.

Ground school providing the necessary aeronautical knowledge to successfully complete the Federal Aviation Administration (FAA) Certified Flight Instructor and the Fundamentals of Instruction written exams.

2V03 Commercial or Instrument Flight Training**1 to 4 sem. hrs.**

Pre-requisite(s): Departmental consent required.

Flight training conducted in accordance with Federal Aviation Administration regulations up to Commercial Pilot License standards or Instrument Flight Rating certificate requirements. May be repeated for credit provided content is different.

3310 Aviation Law

A history of the development of aviation law as well as a study of its present status. Topics include state and federal regulations, tort law, contract law, FAA regulations, aircraft ownership, airport businesses, and the effect of other laws on aviation.

3311 Aircraft Accident Investigation and Prevention

A comprehensive overview of the procedures and methods used and the skills required to investigate an aircraft accident with emphasis placed on accident prevention.

3315 Advanced Aviation Meteorology

Discussion of physical processes in the atmosphere which affect aviation including thunderstorms, wind, icing, turbulence, ceiling, and visibility. Includes development and application of aviation weather products.

3320 Flight Crew Career Development

Airline, corporate, and military flight operations with emphasis placed on daily operations environments and employment resources in the aviation industry.

3342 Applications of Unmanned Aircraft Systems

Applications of UAS technology for commercial, scientific, and governmental purposes with respect to physical and regulatory limitations. Discussion of professionalism and ethics as they apply to remote pilots.

3341 Foundations of Unmanned Aircraft Systems

Analysis of the capabilities and limitations of UAS technology including both hardware and software inclusions along with an examination of the concerns facing UAS integration into the National Airspace.

3350 Space Weather

The discovery, basic processes, and the health, technology, and societal impacts of space weather.

3370 Aviation Leadership (Cross-listed as LDS 3370)

A study of leadership topics such as leadership theory, teamwork, conflict management, supervision, and motivation with an emphasis on application within the aviation industry.

4305 Special Topics in Aviation

Pre-requisite(s): Upper-level standing or consent of instructor.

Study of advanced topics in aviation. This course may be repeated once under a different topic.

4310 Aviation Management

Application of management concepts to the problems involved in airport operations, national air traffic control and air transportation systems.

4314 Advanced Aircraft Systems

Study of large transport aircraft: turbine engines, pressurization, electrical, hydraulic, and fire protection systems. Emphasis on high altitude aerodynamics and performance.

4315 Aerodynamics

Pre-requisite(s): Upper-level standing and Aviation Sciences majors only.

Aircraft types, theory of flight, aerodynamics of the airplane, aircraft performance, effects of atmospheric conditions on performance, theory of aircraft stability and control, effects of flight loads on aircraft structure.

4318 Avionics System Design (Cross-listed as ELC 4318)

See ELC 4318 for course information.

4323 The Environment and Economic Analysis (Cross-listed as ECO 4323 and ENV 4323)

See ENV 4323 for course information.

4340 Flight Performance Testing

Pre-requisite(s): AVS 1311, 1312, 4305; Private Pilot License; and credit or concurrent enrollment in AVS 4315; or consent of instructor.

Exploration of the theoretical and practical performance of aircraft including methods and techniques needed to determine airspeed calibration, climb and descent performance, level flight performance, takeoff and landing distance determinations, turning performance and energy performance. Practical flight tests will be conducted using different aircraft and aviation fuels. Fee: \$50

4343 Human Aspects of Unmanned Aircraft Systems

Pre-requisite(s): AVS 3341.

Assessment of the limits and skills employed by professional remote pilots in trapping and mitigating errors, as well as analyzing human error and management skills used to detect and stop errors during the day-to-day execution of remote pilot tasks. Exploration into the concepts of decision-making bias, stress, and methods for safely identifying and mitigating risk while making time critical decisions.

4344 Safety Management of Unmanned Aircraft Systems

Pre-requisite(s): AVS 3342.

Focus on the four pillars of a safety management system to include safety policy, safety risk management, safety assurance, and safety promotion.

4375 Crew Resource Management (CRM) in Aviation

Cognitive processing theory, organizational behavior, interpersonal relationship skills, and other critical behavioral dynamics of professional flight crews.

4377 Airport Management

Pre-requisite(s): Upper-level standing.

An in-depth overview of the Federal Aviation Regulation Part 139 airport design standard as well as a study of both landside and airside airport business management, utilizing the American Association of Airport Executives' Body of Knowledge modules. Includes a study of the role of the airport in community development.

4386 Remote Sensing (Cross-listed as BIO 4386, ENV 4386, GEO 4386)

See GEO 4386 for course information.

4390 Internship in Aviation

Pre-requisite(s): Upper-level standing and consent of instructor.

Supervised work within the aviation industry corresponding with the student's major and career goals. May be repeated for a total of six semester hours provided professional setting is different.

4485 Introduction to Geographic Information Systems (Cross-listed as ENV 4485, GEO 4485)

See GEO 4485 for course information.

4487 Advanced GIS Analysis (Cross-listed as ENV 4487, and GEO 4487)

See GEO 4487 for course information.

Baylor Interdisciplinary Core (BIC)**1212 Examined Life I: Human Development and College Life**

Co-requisite(s): BIC 1314 and 1413.

Enables freshmen to make sound choices for personal growth through self-reflection, critical thinking, and decision making within the context of the university. Human development and wellness theories are discussed to encourage greater intellectual, physical, emotional, social, and spiritual awareness. Students will be introduced to the goals, structure, and rationale of the BIC, as well as to the academic life of the university. Students will be encouraged to reflect on the enduring value of a liberal arts education and how best to pursue one. Fee: \$75

1314 World Cultures I: Roots of Culture

Co-requisite(s): BIC 1212 and 1413.

Embraces the period from the dawn of civilizations to 500 A.D. The course is arranged chronologically and seeks to widen views of our own culture by studying selected early civilizations and their values. Original sources will be selected from such cultures as the prehistoric, Mesopotamian, Chinese, Hebrew, Greek, early Christian, and Roman. By reading and studying original texts and objects from these cultures, students will be exposed to widely differing views of what it means to be human. They will also have the opportunity to refine critical writing and speaking skills. The course will provide students with the broad cultural and historical context in which they may examine their own identities. Fee: \$100

1323 World of Rhetoric II: Rhetoric in Context

Co-requisite(s): BIC 1324.

Pre-requisite(s): BIC 1413.

Focuses on the continued development of critical reading, thinking, and writing skills by building on the instruction and content of BIC 1413, The World of Rhetoric I: Writing and Speaking. Throughout the course students will engage in the reciprocal process of reading, responding to, and analyzing the rhetorical strategies and arguments presented by a variety of significant authors from different time periods. Major assignments will require increasingly complex writing tasks, from presenting a factual summary of a single essay through preparing a multiple-source research project.

1324 World Cultures II: Religion and Culture

Co-requisite(s): BIC 1323.

Pre-requisite(s): BIC 1314.

A study organized around several major themes including the medieval world and its ideals, both in the West and East, and the new technological, scientific, and social forces that emerged to challenge these ideals. The first theme explores the medieval unity and its expressions in selected works of art, music, and literature. The second relates to the rise of mercantilism and urbanism, and especially to key discoveries in science. World geography will provide a key component of the course. The development or refinement of critical thinking, writing, and speaking skills will be fundamental goals. Fee: \$100

1413 World of Rhetoric I

Co-requisite(s): BIC 1212 and 1314.

Pre-requisite(s): Students must be accepted into the Baylor Interdisciplinary Core Program to enroll in BIC 1413.

Emphasizes those principles essential to the production of clear and effective informative and persuasive/argumentative communication. Assignments will include communication exercises designed to engage students in activities that develop critical thinking, logical reasoning, and effective communication skills. Course work will include the writing of informative, persuasive, and critical essays and the presentation of informative and persuasive speeches. Thematically linked with the other first semester courses in the BIC, the course units are designed to provide students with the written and oral communication skills necessary to function effectively in university courses both within and outside of the Interdisciplinary Core.

2330 Social World I: The City and the Soul

Co-requisite(s): BIC 2334.

Pre-requisite(s): BIC 1324.

This course studies classic works from the ancient and medieval traditions of social and political thought up to the modern rejection of those traditions inaugurated by Machiavelli. Ancient and medieval thinkers typically conceived of civic life as involving an ordering of the soul as well as an arrangement of physical conditions and resources, while early moderns like Machiavelli promote a realism dominated by the concepts of material self-interest and bodily security. With this course, we thus seek to put in place a framework to facilitate our own reconsideration of the famous "quarrel between the ancients and the moderns" on perennial questions of social and political organization. Representative texts include Aristotle's Politics and Ethics, Cicero's de Republica, Augustine's City of God, Aquinas' On Kingship, and John of Salisbury's Policraticus, in addition to Machiavelli's Prince and Discourses on Livy.

2334 World Cultures III: The Modern World

Co-requisite(s): BIC 2330.

Pre-requisite(s): BIC 1324.

Focuses on the scientific revolution and continuing advances in the sciences, and on revolutionary ideas in other areas of human experience--political, religious, social, artistic, and economic. The course will explore efforts of the modern mind to respond creatively to the tensions created by these changes, including the tension between religious and naturalistic world views, the tension between the vast extension of knowledge and the increasing recognition of its limits, the tension between individuality and community, and the tension between the experience of fragmentation and the quest for wholeness. Fee: \$100

2340 Social World II: The Conditions and Possibilities of Human Fulfillment

Co-requisite(s): BIC 2344

Pre-requisite(s): BIC 2330.

This course studies classic modern works of western social and political thought that have played a formative role in the rise of modern political life and contemporary social conscience. In works by Hobbes and Locke, for example, we explore the origins of contemporary liberal democracy and consider the initial efforts to formulate a social science on the model of modern natural science. In works by Rousseau and Marx, we encounter the first great critical assessment of modern liberalism and examine its impact on the political landscape of modernity as well as on the study of social and political life. Utilizing the framework erected in the previous semester (Social World I), we also continue our mediation of the famous "quarrel between the ancients and the moderns" on certain perennial questions of human existence. Representative texts include Hobbes' Leviathan, Locke's Letter Concerning Toleration and Second Treatise, Rousseau's Social Contract, Smith's Wealth of Nations, Marx's German Ideology, and Weber's the Protestant Ethic and the Spirit of Capitalism.

2344 World Cultures IV: The United States in the World

Co-requisite(s): BIC 2340.

Pre-requisite(s): BIC 2334.

Concentrates on the United States and on its experience within the broader global framework. The focus will be the historical development of the nation, including its origins, its regional traditions, its spread westward, its movement into global markets in the twentieth century, and its cultural pluralism. Emphasis will also be placed upon the elements that have made for community in the United States and upon the linkages of United States historical and cultural development with the broader global themes portrayed in World Cultures III.

2437 The Natural World I: Primary Ideas in Science

Pre-requisite(s): BIC 1323 and 1324.

The first course of a two-semester sequence encompassing lecture and laboratory experiences that emphasize the foundations of natural science, science as a way of knowing, and the uses of science. Historical influences on the development of science and the interrelationship between science and culture will be explored. Lecture and laboratory material in The Natural World will be integrated. Laboratories will involve hands-on, discovery-based learning which will lead the student to make connections between observation and interpretation of natural phenomena through critical thinking and will seek to provide students with an understanding of the scientific method, hypothesis formulation and testing, collection of data, analysis of data, and interpretation of data in the context of hypotheses. Fee: \$100

2447 The Natural World II: Global Science Issues

Pre-requisite(s): BIC 2437.

A continuation of The Natural World I. Fee: \$100

3358 Examined Life II: Biblical Heritage and Contemporary Ethical Issues

Pre-requisite(s): BIC 2340 and 2344.

In-depth study of selected texts from the Old and New Testaments and examination of the approaches and resources used today and throughout Christian history in such study. Biblical perspectives on such ethical issues as human rights, environmental concerns and resource allocation will be examined to provide a bridge between the literary/cultural settings of the Bible and contemporary human experience and decision making.

4374 World Cultures V: Differing Visions and Realities

Pre-requisite(s): BIC 3358.

Explores differing visions and realities in a selected sample of non-Western cultures. The initial interdisciplinary study will reveal themes that transcend cultural differences. Students will then investigate the expression of these themes in a culture fundamentally different from their own.

4389 Examined Life III Capstone: Special Topics

Pre-requisite(s): BIC 3358.

Synthesizes learning in two or more disciplines, or in some way connects modes or areas of learning not normally connected. This capstone course represents the culmination both of the Baylor Interdisciplinary Core experience and of the undergraduate experience. By integrating learning, and application, this course will bridge the gap between undergraduate life and life after graduation, leading students to form connections between their lives in the university and their lives in the wider community. The course will include significant written and oral projects. Religion majors and minors must repeat course once under a different topic. Fee: \$50

Bioinformatics (BINF)

1095 Bioinformatics First-year Seminar

Pre-requisite(s): Restricted to Bioinformatics majors.

The Bioinformatics First-Year Seminar is designed to assist new students in making a successful transition from learning in high school (or from another college) to learning at Baylor. Students are guided to accept responsibility for their learning and to understand practices and values that will impact their undergraduate experience; to further instill practicing values that will lead to academic success; and to connect with other new students and faculty members in the department and across campus for the main purpose of helping them be successful in the department of Computer Science, Baylor, and beyond.

3350 Genomics and Bioinformatics (Cross-listed as BIO 3350)

Pre-requisite(s): BIO 2306.

The overall objective of this course is to familiarize students with concepts in genomics, proteomics, systems biology and bioinformatics. Upon course completion students will be able to properly identify appropriate software for use in solving biologically relevant questions. Individuals will also be able to use software efficiently to address questions and maintain a reasonable web presence.

3360 Introduction to Computational Biology

Pre-requisite(s): BINF 3350 and CSI 3344.

An introduction to the computable issues in biology. Assignments will focus on gaining competency in the use of bioinformatics applications, algorithm design, Perl programming, protein structure modeling, and genome annotation.

3V96 Bioinformatics Internship Experience 1 to 3 sem. hrs.

Pre-requisite(s): BINF 3350 and 3360; Consent of instructor.

Department arranged/approved summer intern work experience in bioinformatics-related position. Includes a minimum of eight weeks of employment.

43C9 Bioinformatics Senior Capstone Project

Pre-requisite(s): Senior standing. CSI 3335, BINF 3360.

A semester-long project course in which students will create a bioinformatics computing system. The project requires applying information technology according to established design management practices, including technical presentations (oral and written) by all students. Fee: \$150

Biology (BIO)

1102 Introductory Microbiology Laboratory

Pre-requisite(s): Credit or concurrent enrollment in BIO 1302.

Isolation, culture, morphology, and biochemical activities of microorganisms. Aseptic technique, microbiological staining, environmental sampling, and identification of unknown organisms will be covered. Does not count toward a major in Biology. Fee \$75.

1105 Modern Concepts of Bioscience Laboratory

Pre-requisite(s): BIO 1305 or concurrent enrollment.

Laboratory experiments illustrating modern concepts in the biological sciences, with emphasis on cell biology, metabolism, and genetics. A student will be granted a maximum of two attempts (where an earned grade or a "W" notation counts as an attempt) to earn a higher grade in BIO 1105 in order to fulfill a Pre-requisite(s) or a course requirement for a degree, major, or minor. Fee: \$75

1106 Modern Concepts of Bioscience Laboratory

Pre-requisite(s): BIO 1306 or concurrent enrollment.

Laboratory experiments illustrating modern concepts in the biological sciences, with emphasis on morphology, general physiology, and ecology. A student will be granted a maximum of two attempts (where an earned grade or a "W" notation counts as an attempt) to earn a higher grade in BIO 1106 in order to fulfill a Pre-requisite(s) or a course requirement for a degree, major, or minor. Fee: \$75.

1125 Freshman Biology Resource Seminar

An examination of the breadth of careers in biology and the resources available to biology majors, including an introduction to the faculty and facilities of the Department of Biology, analysis of scientific data, and writing in the sciences.

1302 Introductory Microbiology

Pre-requisite(s): Credit for college-level biology or chemistry course (includes AP and/or IB credit) or consent of instructor. Credit or concurrent enrollment in BIO 1102.

Introduction to microbiology including the study of microbial growth, control of growth, microbial genetics, virulence factors, epidemiology, and the wide variety of contributions microbes make to quality of life. Does not count toward a major in biology.

1305 Modern Concepts of Bioscience

Pre-requisite(s): Satisfactory performance on the ACT or SAT or completion of MTH 1320 with a grade of B- or better or completion of MTH 1321 with a grade of C- or better.

Unifying principles common to all levels of biological organization, with emphasis on cell biology, metabolism, and genetics. BIO 1305 is not a Pre-requisite(s) for BIO 1306. A student will be granted a maximum of two attempts (where an earned grade or a "W" notation counts as an attempt) to earn a higher grade in BIO 1305 in order to fulfill a Pre-requisite(s) or a course requirement for a degree, major, or minor.

1306 Modern Concepts of Bioscience, continued

Pre-requisite(s): Satisfactory performance on the ACT or SAT or completion of MTH 1320 with a grade of B- or better or completion of MTH 1321 with a grade of C- or better.

Continuation of the study of biological concepts with emphasis on morphology, general physiology, evolution, and ecology. A student will be granted a maximum of two attempts (where an earned grade or a "W" notation counts as an attempt) to earn a higher grade in BIO 1305 in order to fulfill a Pre-requisite(s) or a course requirement for a degree, major, or minor.

1401 Current Issues in Human Biology

An introductory course for non-biology majors examining biological issues in the current media, focusing primarily on the human subject. Fee: \$75

1403 Exploring the Living World

Ecological issues in the media, including ecosystems and biodiversity. For non-majors. Fee: \$75

1405 Investigations of Modern Biology Concepts I

Pre-requisite(s): Consent of instructor.

Biological concepts with emphasis on cell biology, metabolism, and genetics. Students will work in small groups on inquiry-based projects in the area of microbiology, genetics, molecular biology, and genomics. Credit may not be received after receiving credit in BIO 1305 and BIO 1105. A student will be granted a maximum of two attempts (where an earned grade or a "W" notation counts as an attempt) to earn a higher grade in BIO 1405 in order to fulfill a Pre-requisite(s) or a course requirement for a degree, major, or minor. Fee: \$130

1406 Investigations of Modern Biology Concepts II

Pre-requisite(s): Consent of instructor.

Biological concepts with emphasis on morphology, general physiology, evolution, and ecology. Includes field trips and small-group, hypothesis-based projects that will require outside class time. Credit may not be received after receiving credit in BIO 1306 and BIO 1106. A student will be granted a maximum of two attempts (where an earned grade or a "W" notation counts as an attempt) to earn a higher grade in BIO 1406 in order to fulfill a Pre-requisite(s) or a course requirement for a degree, major, or minor. Fee: \$130.

1V90 Individual Topics**1 to 9 sem. hrs.**

Pre-requisite(s): Consent of instructor and department chair.

For undergraduates who wish to study individual topics not available in formal courses of the department. Directed reading, independent study or research, supervised library, laboratory or fieldwork, or presentation of material. Open project, which must be approved by the director. May be repeated once when different topics are studied. Fee: \$150

2106 Genetics Laboratory

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and BIO 2306 or concurrent enrollment in BIO 2306.

Laboratory studies illustrating the principles of genetics in living organisms.

(0-3) Fee: \$75

2201 Biology of Global Health

Pre-requisite(s): BIO 1105 and 1305, or BIO 1405; and BIO 1106 and 1306, or BIO 1406; all with grades of C or better.

Explores the interdisciplinary nature of global health challenges and identifies biological principles that explain the emergence, virulence, and spread of infectious diseases.

2306 Genetics

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Basic principles of genetics including Mendelian inheritance, molecular genetics, and population genetics. (3-0)

2401 Human Anatomy & Physiology of Motion & Innervation

Pre-requisite(s): CHE 1300 or 1301; or consent of instructor.

The organization and movement of the human body and mechanisms for maintaining homeostasis via innervation. Topics include the integumentary, skeletal, muscular, and nervous systems. Emphasis is placed on the integration of systems as they relate to normal health. Designed for students who will pursue a career in nursing, nutrition science, and other health fields. Will not apply toward requirements for a major in biology. (3-3) Fee: \$75

2402 Human Anatomy & Physiology of Metabolism & Processing

Pre-requisite(s): CHE 1300 or 1301 and credit for college-level BIO course (includes AP and/or IB credit).

The organization of the human body as related to metabolic processes and reproduction. Topics include the endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. Aspects of development and inheritance are also covered. Will not apply toward requirements for a major in biology. (3-3) Fee: \$75

3100 Seminar in Biology

Pre-requisite(s): Either Bio 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and junior or senior level standing or consent of instructor.

Contemporary topics in biological sciences. Requirements may include directed readings and discussions of advanced topics in biology, attendance at public seminars, presentations, and preparation of a research paper.

3103 Ecology Laboratory

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; and BIO 3303 or concurrent enrollment in BIO 3303.

Field and laboratory experiences in ecological investigations. Fee: \$75

3122 Human Physiology Lab

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and credit or concurrent enrollment in BIO 3322.

Laboratory applies conceptual ideas through the collection and analysis of real time human data, including reaction times, electrocardiograms, electromyograms, spirometry and urinalysis. Fee: \$75

3124 Laboratory for Entomology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and credit or concurrent enrollment in BIO 3324; upper-level standing, and consent of instructor.

Collection, preservation, identification of insects. Collection required. Fee: \$100

3300 Advanced Topics in Biology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Advanced topics in biology not covered in other biology courses. Can be repeated once for credit if topic is different.

3303 Ecology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Lectures and discussions that illustrate the basic concepts in evolutionary, behavioral population, community, ecosystem, and conservation ecology.

3314 Medical Botany

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

An introduction to pharmacognosy and humanistic botany, including a discussion of the major food plants, special medicinal plants, plant hallucinogens, poisonous plants, and other economically important plants. (3-0)

3315 Introduction to Environmental Health (Cross-listed as ENV 3314)

See ENV 3314 for course information.

3320 Climate Change Biology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Biological and conservation responses to human-induced climate change, emphasizing the climate system, past climate influences, range shifts, phenological changes, extinction, predictive modeling, connectivity and landscape management, reduction of greenhouse gas emissions, and extinction risk from climate change solutions.

3322 Human Physiology

Pre-requisite(s): Overall GPA of 3.0 or better. Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Basic physiologic principles and concepts associated with the normal function of human cells, tissues, organs, and organ systems. This course is intended for the pre-profession student who requires a complex survey of human physiology.

3324 Entomology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and upper-level standing or consent of instructor.

Taxonomy, morphology, physiology, and behavior of insects.

3330 Medical Genetics

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and BIO 2106 and 2306.

Study of Mendelian principles applied to humans, genetic defects, chromosomal aberrations, biochemical disorders, pedigrees, and probability. Genetic diagnostic techniques, gene therapy, genetic engineering, genetic counseling and the social, ethical, and legal problems associated with recent advances in genetics will be addressed. (3-0)

3340 Biology of Animal Behavior

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

A study of animal behavior: animal orientation, instinctive behavior, learning, communication, and social behavior with emphasis on evolutionary and ecological relationships. (3-0)

3341 Marine Field Studies (Cross-listed as GEO 3341)

See GEO 3341 for course information.

3342 Molecular Cell Biology

Pre-requisite(s): Overall GPA of 3.0 or better. Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; and BIO 2306 all with grades of C- or better.

Cell structure and function at the cellular and molecular levels. Topics include molecular components of cell membranes, membrane-bound organelles, cytoskeleton, cell division, gene regulation, and principles of bioenergetics.

3350 Genomics and Bioinformatics (Cross-listed as BINF 3350)

See BINF 3350 for course information.

3366 Foundations of Evolutionary Biology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and BIO 2306 or consent of instructor.

Comprehensive survey of evolutionary biology, including a fundamental framework to address causative issues in the biological sciences, and an understanding of the basic processes contributing to biological diversification.

3399 Bachelor's Thesis in Biology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Interest in research. Course Pre-requisite(s)s to be determined by director. Prior to registration the student will choose a project, which must be approved by the director. The research will be presented orally and submitted in proper thesis form. Fee: \$75

3425 General Human Anatomy

Pre-requisite(s): Overall GPA of 3.0 or better. Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

The organs and systems of the human body emphasizing relationships between structure, function, development and microscopic anatomy. Fee: \$150

3429 Comparative Chordate Anatomy

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Structural, functional, and evolutionary relationships of the chordates, particularly vertebrates. (3-3) Fee: \$75

3435 Invertebrate Paleontology (Cross-listed as GEO 3435)

See GEO 3435 for course information.

3V90 Individual Topics

1 to 3 sem. hrs.

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and consent of instructor and department chair.

Individual topics not available in formal courses of the department. May include independent study or research, directed reading, supervised library, laboratory, or fieldwork, or presentation of material. Open to all undergraduates. Prior to registration the student will choose a project that must be approved by the director. May be repeated when different topics are studied. A maximum of 3 semester hours of Individual Topics may apply toward a major in biology. Fee: \$150

4001 Achievement Test

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; and senior standing or consent of instructor.

Biology achievement test for seniors given during fall and spring semesters. A minimum score is required to receive credit.

4100 Genetics Seminar

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and BIO 2106 and 2306.

Reading and discussion of advanced topics in genetics. A research paper is required. (1-0)

4102 General Microbiology Lab

Corequisite(s): BIO 4302

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Laboratory experiments and techniques to culture microorganisms. Analyses of biochemical tests, quantitative and qualitative procedures, and identification of unknown organisms.

4104 Medical Entomology Laboratory

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; upper-level standing and credit or concurrent enrollment in BIO 4304, or consent of instructor.

Collection, preservation, identification, taxonomy and biology of medically important arthropods, especially insects. Survey collection required for graduate credit. Fee: \$100

4106 Molecular Genetics Laboratory

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and either BIO 2306 or CHE 4341; and credit or concurrent enrollment in BIO 4306; or consent of instructor.

Training and preparation for graduate work in genetic engineering, molecular ecology, or molecular medical research. Techniques include DNA isolation, cloning, southern blotting, PCR, DNA sequencing, and computer analysis of DNA sequence. Fee: \$120

4107 Laboratory Studies in Biochemistry and Physiology of the Cell

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and credit or concurrent enrollment in BIO 4307.

Experimental aspects of cellular biochemistry and physiology with emphasis on current techniques for protein analysis. Fee: \$150

4108 Cell and Developmental Biology Laboratory

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and BIO 2306, and credit or concurrent enrollment in BIO 4308; or consent of instructor.

Modern experimental techniques of cell and developmental biology such as microscopy, mutant screening, immunoblotting, histochemistry, tissue culture, and cell adhesion assay will be covered during the course of laboratory exercises and students will have hands-on experience. Fee: \$75

4117 Plant Physiology Lab

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and BIO 1306, or BIO 1406; all with grades of C- or better; and credit or concurrent enrollment in BIO 4317.

Laboratory experiments illustrating modern concepts in plant physiological research, with emphases on form, function relationships, technological innovations, and organismal adaption.

4123 Laboratory for Parasitology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; credit or concurrent enrollment in BIO 4323 and consent of instructor; and upper-level or graduate standing.

Detection and identification of human parasite diagnostic forms. Power Point presentation required for graduate credit. Fee: \$100

4199 Scientific Communication

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Examination of various methods of scientific communication with critical analysis and evaluation of scientific presentations and the current scientific literature.

4301 Immunology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; and BIO 2306; all with grades of C- or better.

Basic principles of resistance to disease, host-antigen interactions, immunologic response mechanisms, immunologic techniques, and correlations of disease and the immune response. (3-0)

4302 General Microbiology

Corequisite(s): BIO 4102.

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

An introduction to the major areas of microbiology, including microbial morphology, metabolism, genetics, evolution, taxonomy, ecology, and disease.

4303 Molecular and Medical Biotechnology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and either BIO 2306 or CHE 4341.

Production of medical and industrial products (e.g., vaccines, enzymes, pharmaceuticals); genetic manipulation of mice, livestock, plants, and microbes for medical research, agriculture, and environmental remediation; regulations, ethics, and patenting. Group capstone project: defend the technology platform of an existing biotechnology company.

4304 Medical Entomology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; upper-level standing or consent of instructor.

Identification, biology, and management of arthropod pests, especially insects, transmitting diseases affecting man, livestock and wildlife.

4306 Molecular Genetics

Co-requisite(s): BIO 4106.

Pre-requisite(s): BIO 3342 and either BIO 2306 or CHE 4341 each with a grade of C or better.

Techniques and strategies pertinent to work in genomics, proteonomics, and genetic engineering as well as cellular processes such as DNA replication, message expression, and cell signaling. Capstone project on analysis and presentation of published research is required.

4307 Biochemistry and Physiology of the Cell

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and CHE 3331 or consent of instructor; and credit or concurrent enrollment in BIO 2306.

The roles of biologically important molecules in cellular structure and function, emphasizing an integrated understanding of the characteristic of the four major classes of biological molecules and the chemical interactions that support living systems. May not receive credit for both BIO 4307 and CHE 4341.

4308 Cell and Developmental Biology

Co-requisite(s): BIO 4108.

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and 2306.

The mechanisms that regulate the development of multicellular organisms, from nematode to humans, will be examined using biochemical, genetic, and cell biological approaches. The course will investigate the role that gene regulation, cell-cell communication, cell adhesion, cell motility, signal transduction, and intracellular trafficking play in the commitment, differentiation and assembly of stem cells into specialized cell types and organs.

4310 Biogeography

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and 3403 and any one of BIO 3424, 4414, 4420, 4422, 4425, 4427 or 4428.

Patterns of geographic distributions of animals and plants, and the physical and biological factors, and processes affecting geographic distributions. (3-0)

4317 Plant Physiology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Experimental studies of important physical and chemical processes related to plant function.

4320 Pathophysiology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and 3422 or concurrent enrollment; or consent of instructor.

Pathophysiology of disease with emphasis on immunology, communicable disease, neoplasia, heredity, congenital problems, and degeneration as expressed in each organ system.

4323 Parasitology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; upper-level or graduate standing or consent of instructor.

Introduction to study of parasites and vectors, emphasizing life cycles and control of those affecting humans. Research paper required for graduate credit.

4330 Behavioral Genetics

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and 2106 and 2306; or consent of instructor.

Biological and genetic foundations of animal behavior. (3-0)

4331 Science Leadership: Community-Based Medical Research

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and upper-level standing and consent of instructor.

Development of science leadership skills through community-based research on medical and public health problems.

4333 Science Leadership: Improvement of Science Education

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and upper-level standing and consent of instructor.

Development of science leadership skills through community-based research on improvement of science education.

4339 Advanced Marine Field Studies (Cross-listed as GEO 4339)

See GEO 4339 for course information.

4344 Fundamentals of Toxicology (Cross-listed as ENV 4344)

See ENV 4344 for course information.

4350 Pathogenic Microbiology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and BIO 4401.

Introduction to medically relevant pathogens with an emphasis on bacterial pathogenesis.

4352 Evolutionary Developmental Genetics

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and 2306, and upper-level standing; or consent of instructor.

Integration of Evolutionary Biology and Developmental Biology into a common framework. The focus will be on the evolution of developmental pathways in order to explain the evolution of animal morphology.

4354 Neglected Tropical Diseases

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Core principles in genetics and cellular and molecular biology to understand the causation, pathogenesis, and control of the major neglected tropical diseases, defined as a group of poverty-promoting chronic infectious diseases.

4360 Applied and Environmental Microbiology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and either BIO 4401 or consent of instructor.

Introduction to the fundamentals and processes in industrial and environmental microbiology including practical topics including fermentation, antibiotic production, industrial biotechnology, wastewater treatment, etc.

4365 Topics in Evolution

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and BIO 2306 or consent of instructor.

Processes which establish or eliminate variation in populations and how these mechanisms affect biological diversity. (3-0)

4370 Biological Principles and Clinical Decision-Making

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and 3422 or concurrent enrollment; or consent of instructor.

Qualitative and quantitative fundamentals of clinical diagnosis and evidence-based medicine in the context of basic anatomy, physiology, biochemistry, and epidemiology.

4381 Restoration Ecology (Cross-listed as ENV 4380)

See ENV 4380 for course information.

4386 Remote Sensing (Cross-listed as AVS 4386, ENV 4386, GEO 4386)

See GEO 4386 for course information.

4402 Transmission Electron Microscopy

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and consent of instructor.

Use and operation of the transmission electron microscope and ancillary equipment as instruments of biological research, with special emphasis on tissue preparation, sectioning, examination, data acquisition, and photography. Fee: \$50

4403 Scanning Electron Microscopy

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and consent of instructor.

Use and operation of the scanning electron microscope and support equipment. Specimen preparation, specimen examination, data acquisition, and data analysis will be emphasized. Fee: \$120

4405 Limnology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Lecture, laboratory, and field studies of lakes and streams. Emphasis on analysis and interpretation of physical, chemical, and biological factors relating to metabolism and production of aquatic communities. Overnight trips may be required. (2-6) Fee: \$75

4406 Aquatic Biology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Laboratory and field studies of lakes, streams, and estuaries. Primarily for advanced students of zoology and botany who are interested in aquatic organisms and their ecology. Emphasis is on collection, preservation, and identification of all aquatic biota except fishes. Overnight trips may be required. (2-6) Fee: \$75

4414 Taxonomy of Flowering Plants

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Laboratory and field studies by the use of a dichotomous key emphasizing flowering plants of the Central Texas area as topics of study, and recognition of the major families of vascular plants. Lecture emphasis is on current problems in plant taxonomy and systematics. (3-3) Fee: \$75

4416 Plant Anatomy

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Anatomy of seed plants, with emphasis on structure-function relationships that occur during growth and development. (2-6) Fee: \$75

4418 Biology of Wetland and Aquatic Vascular Plants

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and any taxonomic course.

Taxonomy, ecology, structure, distribution, and economic significance of aquatic vascular plants. (4-3) Fee: \$75

4420 Biology of the Vertebrates

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

An introduction to the biology of the vertebrates, emphasizing recognition and classification of modern taxa, adaptations to diverse lifestyles, and importance to humans in context of diseases, domestication and conservation. (3-3) Fee: \$75

4422 Ichthyology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Fish fauna of the area with emphasis on morphology, ecology, economics, and systematics. Overnight trips may be required. (2-6) Fee: \$75

4426 Vertebrate Histology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; and BIO 3422; all with grades of C- or better.

Microscopic structure of vertebrate tissues and organs. (3-3) Fee: \$75

4427 Biology of Mammals

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

An introduction to the biology of mammals, emphasizing recognition and classification of modern taxa, adaptations to diverse lifestyles, and importance to humans in context of diseases, domestication and conservation. Fee: \$75

4428 Ornithology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better.

Evolution, morphology, physiology, behavior, reproduction, ecology, geography, and migration of birds of the world. Includes field identification of Central Texas species. (3-3) Fee: \$60

4430 Vertebrate Paleontology (Cross-listed as GEO 4430)

Pre-requisite(s): Consent of instructor.

Evolutionary history and biogeography of vertebrate animals based primarily on fossil evidence. Laboratory activities include study of fossil material, field excavations, and visits to museums. (3-3) Fee: \$75

4431 Comparative Vertebrate Physiology

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and upper-level standing; or consent of instructor.

Vertebrate physiology in a comparative evolutionary context. Emphasis on general principles, with unique examples supplied from all major vertebrate taxa. Fee: \$150

4V04 Biology Field Studies**1 to 9 sem. hrs.**

Pre-requisite(s): Either BIO 1105 and 1305, or BIO 1405; and either BIO 1106 and 1306, or BIO 1406; all with grades of C- or better; and consent of instructor.

Organisms, environments, and methods of field study. Available for one to four hours of credit, with each hour of credit corresponding to one week of study in field. Four hours required to satisfy field course requirement. Fee: \$75

4V75 Clinical Laboratory Science Internship 6 to 12 sem. hrs.

Pre-requisite(s): Consent of instructor; for Clinical Laboratory Science majors only.

Highly intensive clinical training at an affiliated institution in preparation for national certification as a clinical laboratory scientist. A grade of "C- "or better is required for course credit. Can be taken for 6 to 12 hours per semester for a maximum of 4 times with a total of no more than 42 hours.

Biomedical Engineering (BME)

4353 Image Formation and Processing (Cross-listed with ELC 4353)

See ELC 4353 for course information.

4370 Biomaterials: Form and Function

Pre-requisite(s): ME 3320 and 3322.

A traditional mechanical/materials engineering approach will be used to explore the structure and function relationship of naturally occurring biological materials. Emphasis is on mechanical design and function with some discussion of physical properties. Materials used in medical devices will be compared and contrasted with naturally occurring biomaterials.

(3-0) Fee: \$50

4372 Bioinstrumentation (Cross-listed as ELC 4372)

See ELC 4372 for course information.

4374 Biomechanics

Pre-requisite(s): ME 3320.

Introduction to biomechanics. Topics covered include: review of fundamental principles of mechanics, human musculoskeletal physiology and anatomy, properties of biological materials, methods and practice of measuring biological signals, biomechanical modeling and simulation, and applications of biomechanical study. (3-0) Fee: \$50

4376 Introduction to the Design and Evaluation of Medical Devices

Pre-requisite(s): EGR 3380

Project-based introduction to medical device design and evaluation. Topics to be covered include: clinical needs finding, design criteria generation, basic anatomy, design evaluation, prototyping, regulatory process, intellectual property, and validation process. Students will work in teams to address a real medical problem.

4396 Special Topics in Biomedical Engineering

Pre-requisite(s): Consent of department chair.

Study of advanced topics in biomedical engineering. This course may be repeated once under a different topic.

4452 Biomedical Digital Signal Processing

Pre-requisite(s): ELC 3335 and STA 3381.

Discrete-time signals and systems, sampling theory, z-transforms, spectral analysis, filter design, applications, analysis, and design of digital signal processing systems. Laboratory emphasis on biomedical applications of digital signal processing. Credit cannot be earned for ME 4452 if credit is earned for ELC 4451. (3-3)

4V97 Special Projects in Biomedical Engineering 1 to 6 sem. hrs.

Pre-requisite(s): Consent of department chair.

Advanced topics and/or special project activities in biomedical engineering.

Business (BUS)**1101 Connecting to the Hankamer School of Business**

Pre-requisite(s): Only open to pre-business majors.

An introductory course designed to facilitate the transition of first-year business students to the Hankamer School of Business (HSB). The course will include expert panels, guest speakers, alumni, faculty, and student guests, and provide exposure to HSB programming, build relationships within HSB, enhance the opportunity for academic success, and connect students with HSB. Selected topics include: role of the HSB curriculum, success in the Business School, HSB programming, business majors, building a professional portfolio, introduction to career services, and the importance of networking.

1201 Introduction to Business

An introductory course designed to increase the business and financial literacy of pre-business majors and lay a strong foundation for business ethics. Interactive, hands-on simulations and daily readings increase business and financial literacy. Working with the Baylor University Honor Code and various corporate codes of ethics improve both personal and professional ethics. Regular visits from Baylor alumni are a key component of the course. Fee: \$50

1305 Software Applications for Business Productivity and Decision-Making

A hands-on course designed to familiarize students with current software application tools used by business professionals—such as spreadsheets and databases— that are essential to helping managers organize, store, analyze, share, and present data to help promote effective business decision-making. The course may also include additional coverage of relevant topics and current trends in the Information Systems field. Fee: \$50.

2101 Career Management (Assessment & Discovery) for Undergraduate Students

Pre-requisite(s): Cumulative GPA of 3.0 or higher. A minimum grade of C in BUS 1101, BUS 1201, BUS 1305. Only Open to BBA students.

This course consists of a variety of career exploration and development experiences designed to help students identify their passion; prioritize and focus their job search efforts; and develop their leadership, communication, and personal marketability. Topics include self-assessment; career passion discovery; career exploration and development exercises; and interview training to assist in finding rewarding internships and full-time jobs. Fee: \$50

2222 Introduction to Energy Commerce

Pre-requisite(s): BUS 1201 or ECO 1380 with a grade of "B" or better.

The energy industry in the United States and the world. Fossil fuels (oil, natural gas, and coal), renewables (solar, wind, biomass, hydropower), current events, and environmental/regulatory issues. Analysis of major companies, sources of information, and career opportunities.

3101 Career Management (Strategy & Success) for Undergraduate Students

Pre-requisite(s): A minimum grade of C in BUS 2101. Only open to BBA students excluding Pre-business majors.

This course consists of a variety of career exploration and development experiences designed to prioritize and focus the students' job search needs; and develop the students' leadership, communication, and personal marketability. It will introduce networking skills, company (prospective employer) analysis, internship/job analysis and search strategy, interviewing skills, and negotiation techniques to maximize the students' new-hire potential. Fee: \$50

3302 Personal Financial Decisions

Basic personal financial management. Principal topics include personal financial statements (balance sheet and income statement); budgeting and cash management; responsible use of consumer credit; personal income taxes; types of personal insurance; investment alternatives; buying and financing major assets (home, automobiles, appliances); and estate planning. (This course will not count toward either BBA or BA-Business degree.)

3303 Managerial Communications

This course focuses on communication situations found in business and the work world. It is designed to help students become more successful in their professional lives. It incorporates the wide range of oral communication needed in our ever-growing diverse business and professional cultures. Topics of study and practice include improving presentation skills, overcoming communication apprehension, understanding the challenges of diverse cultures in the workforce, appreciating genderlect, using successful interpersonal skills, working in teams, developing leadership, preparing for ethical challenges, and participating in business dinner etiquette.

3310 Multinational Business

An interdisciplinary introduction to the unique problems and opportunities that face firms engaged in international business, from the point of view of the multinational firm doing business abroad. Special attention is given to the international environment. The course is taught only outside the United States.

3315 Business Communications

Pre-requisite(s): ENG 1302 and 1304; or BIC 1323 and 1413. Only open to BBA students.

This course prepares students for the communication challenges of the twenty-first century workplace. Essential elements of the writing process are covered. Students complete the standard brief transactional messages; follow a structured research process and produce an executive report; and make a professional oral presentation. Job search communication is included with an emphasis on strategic best practices. Fee: \$50

3345 Training and Development in Business and Industry

Pre-requisite(s): Upper-level standing; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course focuses on corporate training and its application to professional and staff development within business and industry. Course content includes learning styles, theories, and processes with an emphasis on the practical application to corporate training needs. In small groups, students will assess a training need, design/develop a training activity, and then conduct an actual training session.

3350 Christian Ethics Applied to Business

Pre-requisite(s): Junior standing; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of how business decisions and actions incorporate ethical issues. Individuals, organizations, economic/political systems and societies are influenced in significant ways by the ethical principles they use when shaping decisions about how to conduct business. The course examines, from a Christian perspective, the ethical foundations, responsibilities, and consequences of business practices in our society. Study includes the use of case studies illustrating the application of ethical theory in situations that students will likely encounter in their careers.

4370 Biblical Research Applied to Business

Pre-requisite(s): Approval of instructor; not open to pre-business students.

A search of the scriptures for presuppositions, principles, and propositional statements that have modern business applications. It is independent research with the exchange of Biblical discoveries and discerned applications to ethical and social problems faced in the business world.

4380 Business Excellence and Scholarship Team (BEST)

Pre-requisite(s): Consent of the BEST faculty executive board; not open to pre-business students.

BEST is a two-semester program designed to provide an innovative educational experience for selected students in the business school. During the fall semester, students enrolled in BUS 4380 will engage in various activities in close association with numerous Hankamer Business School faculty and community leaders. Proposed activities include an international trip, plant tours, self-assessments, career development exercises, and a weekend survival course. The second component of BEST involves enrollment in a special section of the business policy course (BUS 4385) during the spring.

4385 Strategic Management

Pre-requisite(s): A grade of "C" or better must be earned in FIN 3309 or FIN 3310, MKT 3305, MGT 3305 (or AS 3301 or MILS 3301), and MGT 3325 prior to enrolling in BUS 4385. May not be taken for graduate credit. Only open to BBA students. Not open to Pre-business majors.

An integrative capstone course in which materials and techniques are drawn from many disciplines. Areas examined in the course include strategy formulation, implementation, and control from the perspective of the manager. Specific themes throughout the course include interpretation of mission, goals and objectives; competitive analysis, matching the strategic direction of the firm to the organization structure; and the interface between strategy and employees. All topics are explored from both domestic and international firm perspectives.

4V95 Energy Commerce Internship**1 to 6 sem. hrs.**

Pre-requisite(s): BUS 2222, Upper-level standing, and consent of instructor.

Supervised work within the energy industry corresponding with the student's major and career goals.

4V98 Special Studies in Business**1 to 3 sem. hrs.**

Pre-requisite(s): Consent of instructor and associate dean; not open to pre-business students.

May be taken for one to three hours credit.

Business Law (BL)**3305 Legal Environment of Business**

Pre-requisite(s): Junior Standing. Only open to BBA students.

A study of the legal environment including the nature and sources of law, court systems, litigation, and alternative dispute resolution; constitutional and administrative law, tort law and product liability, contract law, agency law; business organizations; business ethics and social responsibility; international law; and selected topics of government regulation of business including antitrust law, employment law, environment law, and securities regulation.

4303 Employment Law

Pre-requisite(s): Junior standing or consent of instructor; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of the legal and regulatory framework governing the employment relationship, with particular emphasis on employee selection, discrimination, privacy rights, and termination. Students will examine the increasingly complex body of laws that challenge employers as they strive to maintain a productive and reliable workforce. The course will include topics such as employment contracts, equal opportunity law (discrimination, sexual harassment, affirmative action), wrongful discharge, employee privacy, etc.

4310 Cyberlaw

Pre-requisite(s): Upper-level standing or consent of instructor.

A study of legal issues relating to cyberspace and the management of technology. Students will examine emerging cyberlaw issues such as jurisdiction; ownership and protection of intellectual property; electronic commerce; regulation of privacy, security, and online speech; and computer crimes, as well as international law and ethical issues in this area. The course is designed to provide an active learning environment for business students to prepare them to effectively manage technological innovations.

4320 International Business Law (Cross-listed as INB 4320)

Pre-requisite(s): BL 3305 or consent of instructor; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Legal issues relating to international business transactions. Topics include major organizations and conventions/treaties related to international business, differences between U.S. and foreign contract and employment laws, methods of entry into foreign markets such as direct foreign investment or franchising, techniques to minimize risk in international transactions, the need for cultural awareness as it affects business transactions, trade regulations including import and export requirements and tariffs, and how to resolve disputes effectively.

4325 Legal Aspects of Financial and Commercial Transactions

Pre-requisite(s): BL 3305 or consent of instructor.

Legal issues encountered in conducting financial and commercial business transactions in business. Students will gain knowledge to prepare them to participate in these transactions, particularly with regard to financial and accounting aspects of the transactions. The course will include a study of laws relating to business organizations, sales, commercial paper, secured transactions, documents of title, bankruptcy, securities regulations, and accountants' legal liability.

4345 Global Trade Compliance (Cross-listed as INB 4345)

A practical introduction to the regulatory requirements that firms must fulfill to participate in international trade. The course will survey the role of trade compliance in the operations of international firms, an overview of U.S. export and import regulatory regimes and agencies, discussion of selected case studies, and information on the additional requirements for a career in global trade compliance.

4V98 Special Studies in Business Law**1 to 3 sem. hrs.**

Pre-requisite(s): BL 3305 and consent of instructor.

May be taken for 3 hours credit and may be repeated under different topic.

Chapel (CHA)**1088 Chapel**

University Chapel is the oldest tradition at Baylor. For more than 160 years, Baylor students have gathered to worship together, to engage important issues of our day, and to be inspired by speakers, artists, academicians, and leaders from every vocation. As students worship together, they will be invited into a service that both speaks to where they are and exposes them to the worship tradition of the larger Body of Christ. In addition to worship services, other programs will be offered that not only lift the spirit but also prompt vocational imagination. This kind of collective sacred experience is a critical dimension of a Christian education.

Chemistry (CHE)**1100 Introductory Chemistry Laboratory**

Pre-requisite(s): Credit or concurrent registration in CHE 1300.

Laboratory investigations of chemical reactions and properties of common, everyday materials. Fee: \$92

1101 General Chemistry Laboratory I

Pre-requisite(s): Credit or concurrent registration in CHE 1301.

An introductory laboratory course that illustrates topics covered in CHE 1301, including chemical reactions, the mole concept, properties of gases and solutions, thermochemistry, and molecular bonding. Fee: \$92

1102 General Chemistry Laboratory II

Pre-requisite(s): CHE 1101 and credit or concurrent registration in CHE 1302.

An introductory laboratory course that illustrates topics covered in CHE 1302, including properties of solutions, kinetics, equilibrium, thermodynamics, electrochemistry, and chemical analysis. Fee: \$92

1146 Introductory Organic Biochemistry Laboratory

Pre-requisite(s): Credit or concurrent registration in CHE 1341.

Laboratory experiments illustrating principles of organic chemistry and biochemistry. Fee: \$92

1300 Introductory Chemistry

No previous knowledge of chemistry required. A one-semester course in general inorganic chemistry, covering atomic structure, bonding, nomenclature, chemical equations, and a problem-solving approach to stoichiometry, gases, solutions, acids and bases, chemical equilibrium and oxidation-reduction. Note: Students may apply either CHE 1300-1100, 1405, 1341-1146, or 1301 and 1100 in fulfillment of a science requirement for a (non-chemistry) B.A. degree. However, CHE 1405 is strongly advised for the meeting of this requirement.

1301 Basic Principles of Modern Chemistry I

Pre-requisite(s): A satisfactory score on the SAT math, ACT math, or participation in an online learning module and earning a minimum score at the conclusion of the module. Completion of high school chemistry highly recommended.

An introduction to chemical reactions; the mole concept; properties of gases, solids, liquids, and solutions; atomic structure; periodic properties; chemical bonding, and molecular structure.

1302 Basic Principles of Modern Chemistry II

Pre-requisite(s): CHE 1301 with a C or better.

A continuation of CHE 1301 with emphasis on chemical equilibrium, thermodynamics, electrochemistry, kinetics, and radiochemistry.

1341 Introductory Organic Biochemistry

Pre-requisite(s): CHE 1300 or 1301.

A one-semester introduction to organic chemistry and biochemistry. The structure and properties of different classes of organic compounds, enzymes, bioenergetics, intermediary metabolism, body fluids, and nutrition will be covered.

1405 Chemistry and Society

The influence of chemistry on everyday life, including energy sources, agricultural chemicals, food and food additives, medicines, drugs, water, air, and pollution. Laboratory exercises involve the chemistry and physical properties of common materials. Fee: \$92

1V98 Special Research Problems

0 to 3 sem. hrs.

Pre-requisite(s): CHE 1302 and 2416; or permission of instructor.

A research project conducted under the supervision of a Baylor Chemistry/Biochemistry Department faculty member. A minimum of three clock hours of work per week in the laboratory will be required for each semester hour of credit. This course may be repeated once if research continues. Departmental clearance is required before a grade can be assigned.

2416 Laboratory Measurements and Techniques

Pre-requisite(s): CHE 1102 and 1302.

An introductory laboratory course in quantitative analysis, including volumetric and gravimetric procedures with emphasis on developing the requisite laboratory technique for making high-quality analytical determinations. Fee: \$98

2V98 Extended Research Problems**0 to 3 sem. hrs.**

Pre-requisite(s): Two semesters of CHE 1V98.

A research project conducted under the supervision of a Baylor Chemistry/Biochemistry Department faculty member. A minimum of three clock hours of work per week in the laboratory will be required for each semester hour of credit. This course may be repeated once if research continues. Departmental clearance is required before a grade can be assigned.

3238 Organic Chemistry Laboratory

Pre-requisite(s): CHE 1102, 3331, and credit or concurrent registration in CHE 3332.

A laboratory course in organic chemistry including synthesis, purification, and analysis of organic compounds using a variety of techniques. Fee: \$98

3331 Organic Chemistry I

Pre-requisite(s): CHE 1302 with a grade of C or better.

Chemistry of organic compounds which primarily contain the less polar functional groups. Topics include reaction mechanisms, stereochemistry and organic spectroscopy.

3332 Organic Chemistry II

Pre-requisite(s): CHE 3331 with grade of C or better or consent of instructor.

A continuation of CHE 3331 involving the chemistry of the more polar functional groups, including carbohydrates and amino acids. A nationally standardized comprehensive final examination covering both CHE 3331 and 3332 will be given.

3341 Biochemistry of Nutrition

Pre-requisite(s): CHE 1302, CHE 1341, and BIO 1305, all with grades of C or better.

The chemistry of dietary components, digestion, and biosynthesis, with emphasis on molecular structures, chemical properties, and metabolic relationships relevant to health. (This course does not count as an advanced course for chemistry majors.)

3361 Forensic Analytical Chemistry

Pre-requisite(s): CHE 3332 and credit or concurrent enrollment in CHE 3238.

Introduction to the theory and techniques of analytical chemistry as applied to forensic science.

4001 Exit Examination

Pre-requisite(s): Senior standing.

The only requirement for this course is completion of a comprehensive chemistry exit examination designated by the department. This examination may be written by the department's faculty or may be chosen from the GRE, ETS, or another similar examination.

4141 Modern Biochemistry Laboratory

Pre-requisite(s): CHE 2416, 3238 and credit or concurrent enrollment in CHE 4341.

Experiments illustrating isolation and identification of biomolecules with emphasis on chromatographic separations, centrifugation, electrophoresis, spectroscopic methods, kinetics, and analysis of experimental data. Fee: \$95

4142 Advanced Biochemistry Laboratory

Pre-requisite(s): CHE 4141 and credit or concurrent enrollment in CHE 4342.

Experiments illustrating characterization of biomolecules with emphasis on advanced techniques in liquid chromatography, electrophoretic methods, ultracentrifugation, spectroscopic analysis, and molecular graphics and modeling. Fee: \$95

4151 Undergraduate Seminar I

Pre-requisite(s): CHE 3332 and senior standing.

Presentation of a seminar derived from the recent literature in an area of chemistry designated by the instructor.

4199 Senior Thesis

Pre-requisite(s): CHE 4V98 and consent of instructor.

A final report in the form of a B.S. thesis and a public presentation on a research project conducted under the supervision of a Baylor Chemistry/Biochemistry Department faculty member. A copy of the thesis must be submitted to the advisor for B.S. chemistry majors before a grade can be assigned.

4207 Preparative Inorganic Chemistry

Pre-requisite(s): CHE 3238, 4302, and either 4225 or 4227; or consent of instructor.

A wide range of experimental techniques currently used in preparative inorganic chemistry research. Such techniques include dry bag, inert atmosphere, ion-exchange, and vacuum line manipulations; electrolytic, non-aqueous solvent, and tube furnace preparations. Emphasis will be given to both the preparation and characterization of compounds prepared in the laboratory. Fee: \$92

4217 Instrumental Analysis Laboratory

Pre-requisite(s): CHE 4225 or 4227, and either credit or concurrent registration in CHE 4316.

Laboratory work in instrumental analysis with an emphasis on spectroscopy, separations, and electrochemical methods. Fee: \$98

4225 Biophysical Chemistry Laboratory

Pre-requisite(s): CHE 2416 and credit or concurrent enrollment in CHE 4327.

Introduction to basic biophysical laboratory techniques. Emphasis is placed on the spectroscopy and calorimetry of macromolecules/ligand interactions. Instruction in effective report writing. Fee: \$95

4227 Physical Chemistry Laboratory I

Pre-requisite(s): CHE 2416 and credit or concurrent enrollment in CHE 4321.

Techniques of physical property measurement, data analysis, and interpretation, with emphasis on thermodynamics, electrochemistry, surface chemistry, solutions, and kinetics. Instruction in effective report writing. Fee: \$98

4228 Physical Chemistry Laboratory II

Pre-requisite(s): CHE 4125 or 4127, and credit or concurrent enrollment in CHE 4322.

Advanced work in measurement and data analysis techniques, with emphasis on lasers, molecular spectroscopy, and photochemistry. Instruction in effective report writing. Fee: \$92

4237 Advanced Organic Laboratory

Pre-requisite(s): CHE 3238 and 3332.

Advanced organic synthesis, purification and analysis techniques, including the use of instrumental methods, such as inert atmosphere techniques and modern analytical and preparative chromatography. Fee: \$92

4302 Descriptive Inorganic Chemistry

Pre-requisite(s): CHE 1301 and CHE 1302.

Modern inorganic chemistry, including principles of structure, bonding, and chemical reactivity with application to compounds of the main group and transition elements, with organometallic chemistry.

4307 Advanced Inorganic Chemistry

Pre-requisite(s): CHE 4321 and CHE 4302.

Advanced topics in inorganic chemistry; molecular symmetry with applications to electronic structure and spectroscopy; reaction kinetics and mechanisms; inorganic synthesis and catalysis; bioinorganic chemistry.

4316 Instrumental Analysis

Pre-requisite(s): CHE 4321 or 4327.

Introduction to instrumental methods of analysis including spectroscopy, separations, and electrochemical methods.

4321 Physical Chemistry I

Pre-requisite(s): CHE 2416, MTH 2321, and PHY 1430; and CHE 3332 or consent of instructor.

Gases, liquids and solids, phase changes, electrochemistry, and the principles of kinetics and thermodynamics. (Not applicable to a major in biochemistry.)

4322 Physical Chemistry II

Pre-requisite(s): CHE 2416, MTH 2321, and PHY 1430; and CHE 3332 or consent of instructor.

Postulates of quantum mechanics. Application of quantum theory to simple models: particle in a box, rigid rotor, and harmonic oscillator. Electronic, rotational, and vibrational motion in molecules. Molecular energy levels and spectra. Electronic structure of atoms and molecules. Basic concepts of statistical thermodynamics.

4327 Physical Chemistry for the Life Sciences

Pre-requisite(s): CHE 2416, MTH 1322, PHY 1409 or 1430; and credit or concurrent enrollment in CHE 4341.

Chemical thermodynamics, kinetics, and the basic principles of spectroscopy with applications to systems of biochemical interest. (Not applicable to a major in chemistry.)

4332 Organic Chemistry III

Pre-requisite(s): CHE 3238 and 3332 with grades of B or above; or consent of instructor.

Advanced aspects of organic chemistry, including synthetic strategies and techniques, reaction mechanisms, and an introduction to bio-organic chemistry.

4334 Organic Spectroscopy

Pre-requisite(s): CHE 3238 and 3332 with grades of B or above; or consent of instructor.

The most common spectroscopic methods including infrared, ultraviolet-visible, nuclear magnetic resonance and mass spectroscopies, with emphasis on the practical use of NMR and MS in structure determination problems.

4341 General Biochemistry

Pre-requisite(s): CHE 3332 with a grade of C or better.

Structure and dynamics of compounds of biological interest. (Students may not receive credit for both BIO 4307 and CHE 4341.)

4342 Topics in Human Biochemistry

Pre-requisite(s): A grade of C or better in CHE 3332; and either a grade of C or better in CHE 4341 or a grade of B or better in BIO 4307

Topics in selected areas of human biochemistry such as hormone action, neurotransmission, vision, digestion, transport.

4V60 Special Topics in Chemistry

1 to 4 sem. hrs.

Pre-requisite(s): CHE 3332 and consent of instructor.

Topics in chemistry not covered in other chemistry courses. May be repeated once for credit if topic is different.

4V98 Senior Research Problems

0 to 3 sem. hrs.

Pre-requisite(s): CHE 2V98, 3238, and 3332 and consent of instructor.

A research project conducted under the supervision of a Baylor Chemistry/Biochemistry Department faculty member. A minimum of three clock hours of work per week in the laboratory will be required for each semester hour of credit. A written progress report will be submitted to the instructor at the end of each semester. This course may be repeated for a maximum of 6 total hours if research continues. Departmental clearance is required before a grade can be assigned.

Child and Family Studies (CFS)

1315 Development of Individual and Family Relationships

An introductory study of individual development integrating interpersonal and intrafamily relationships across the family life course. (3-0)

2355 Child Development

Physical, intellectual, emotional, and social development from birth to middle childhood. One hour each week working with children in a community setting is required. (3-0) Fee: \$70

3324 Children and Families with Special Needs

Social, educational, and vocational challenges faced by families with children with special needs.

3325 Child Health Programs

Pre-requisite(s): Junior standing or consent of instructor.

Theory and community practice of current and proposed public health programs benefiting children. Course targets future child life specialists, dietitians, nurses, educators, social workers, and public health administrators.

3350 Individual and Family Financial Management

Study of individual and family financial decisions, planning and management. (3-0)

3354 Family Life Education and Ethics

Historical, philosophical and theoretical foundations of Family Life Education (FLE); role of a FL educator, frameworks of FLE design, delivery and ethical guidelines.

3356 Theories of Family Development

Pre-requisite(s): Upper-level standing.

A theoretical study of societal changes affecting families over the life course. Using a systems paradigm, emphasis is placed on effective communication and knowledgeable choices regarding marriage, parenting, divorce, family crises, and aging. (3-0)

3357 The Preschool Child

Pre-requisite(s): A minimum grade of C in CFS 2355 or consent of instructor.

A study of the social relationships and adjustments of the young child in group situations, including supervised participation and the planning and implementation of curriculum. (3-0) Fee: \$70

3358 Infant and Toddler Development

Pre-requisite(s): CFS 2355.

The developmental sequence from prenatal to three years, emphasizing the relationship and interactive process between infants, toddlers, and their primary caregivers in family and group situations. Two hours each week working with infants/toddlers in community center required (2-2). Fee: \$65

3362 Child Life Theory and Practice

Pre-requisite(s): A minimum grade of C in CFS 2355 and upper-level standing or consent of instructor.

Historical and theoretical perspective on development of child life field and information on fundamental skills required to help children and families cope with the stress of a health care experience.

4191 Professional Practices in Child and Family Studies

Pre-requisite(s): Upper-level standing and a minimum of 12 credit hours of CFS courses completed with a C or better.

The study and preparation for the Child and Family Studies practicum experience. Application of professional skills related to various forms of written and verbal communication, interview techniques, and ethics.

4340 Resource Management

Pre-requisite(s): Upper-level standing.

Emphasis on a systems approach to time, energy, and resource management. Strategies for maximizing management influences on individual and family welfare. Designed to include occupational competencies and analyze career and job opportunities. (3-0)

4356 The Family: A Global Perspective

Families around the world: functions, roles, responsibilities, environmental influences, and interactions with other societal institutions.

4357 Child and Family Policy and Advocacy

Pre-requisite(s): Upper-level standing or consent of instructor.

Exploration of the reciprocal influences between children and families and all branches of government, including public/private sectors at local, state, and federal levels. Emphasis placed on models, skills, and approaches necessary to advocate for and influence policy. (3-0)

4358 Planning and Administration of Child and Family Programs

Pre-requisite(s): Upper level standing or consent of instructor.

Administration and planning of programs serving children and families. Emphasis is placed on program planning, evaluation, ethics, and professionalism as they apply to child and family programs. (3-0) Fee: \$65

4359 Parenting

Factors to consider in becoming a parent, child-rearing practices, diverse parenting situations, and parent-child communication. (3-0)

4363 Adolescent Development

Pre-requisite(s): Upper-level standing.

The psychosocial, social-emotional, and cognitive language development of adolescents.

4364 Child and Family Ministry

Pre-requisite(s): Upper-level standing or consent of instructor.

Biblical framework, contemporary issues, models, skills, and approaches of child and family ministry, covering faith-based settings. (3-0)

4365 Adult Development

Pre-requisite(s): Upper-level standing or consent of instructor.

Physical, intellectual, and social-emotional development in adulthood, the developmental tasks associated with adulthood, and adult learning principles.

4367 Family Transitions, Stress, and Resilience

Pre-requisite(s): Upper-level standing or consent of the instructor.

Current theory and models seeking to understand family transitions, stress, coping, adaptation, and resilience.

4368 Family Perspectives on Aging

Pre-requisite(s): Upper-level standing.

A study of normative aging processes within the family context. (3-0)

4390 Child and Family Studies Practicum

Pre-requisite(s): A minimum grade of C in CFS 2355, 3356, 4359, and 4191; and consent of instructor.

Requires a minimum of one hundred and fifty clock hours of directed experiences in a program-related professional setting, plus weekly online class activities and discussions. May be repeated in a different setting for a maximum of 6 credits. Fee: \$50

4695 Internship in Child Life

Pre-requisite(s): A minimum grade of C in CFS 3357, 4359, 4362; senior standing; and consent of instructor.

Supervised child life internship in an approved hospital for four hundred or more hours. Written reports and research required.

Chinese (CHI)**1401 Elementary Chinese**

Introduction to the Chinese language and culture: pronunciation, grammar, reading of simple texts and conversation. Fee: \$50

1402 Elementary Chinese

Pre-requisite(s): CHI 1401 or 2 units of high school Chinese.

Continuation of CHI 1401. Fee: \$50

2310 Intermediate Chinese

Pre-requisite(s): CHI 1402 or three units of high school Chinese.

Conversation, composition, cultural readings, and grammar review. Fee: \$50

2320 Intermediate Chinese

Pre-requisite(s) CHI 2310 or four units of high school Chinese.

Continuation of CHI 2310. Fee: \$50

3301 Chinese Conversation, Composition, and Readings I

Pre-requisite(s): Fourteen semester hours of Chinese or consent of division director.

Development of communication and reading skills.

3302 Chinese Conversation, Composition, and Readings II

Pre-requisite(s): Fourteen semester hours of Chinese or consent of division director.

Continuation of CHI 3301.

3305 Chinese for Business I

Pre-requisite(s): CHI 2320.

Chinese language study centered on the development and mastery of business-related vocabulary and communication skills. Classes conducted in Chinese.

3306 Chinese for Business II

Pre-requisite(s): CHI 2320.

Case studies of international corporations moving into China and Chinese companies developing in other countries. Classes conducted in Chinese.

3V70 Special Problems

1 to 3 sem. hrs.

Pre-requisite(s): Consent of division director.

With content changed, this course may be repeated once for credit.

4301 Chinese Literature and Culture I

Pre-requisite(s): CHI 3302 or consent of instructor.

An analytical study of the representative works of literature, history, and philosophy from the early Zhou through the Han dynasties.

4302 Chinese Literature and Culture II

Pre-requisite(s): CHI 3302 or consent of instructor.

An analytical study of the representative works of literature, history, and philosophy since the Wei dynasty.

Classics (CLA)

1301 Word Power

Designed to help students develop their English vocabulary by examining the Latin and Greek vocabulary bases, prefixes and suffixes from which English evolved as well as commonly used Greek and Latin words and phrases.

1304 From Ancient Rhetoric to Modern Research Writing

Instruction in research methods and the techniques of critical and persuasive writing, drawing from the rich tradition of ancient Greek and Roman rhetoric and literature.

1305 Heroes and Heroines of the Ancient World

Heroes and heroines of ancient world through readings in translation, including Adam and Eve, Jesus and Mary, Rama and Sita, Heracles and Deineira, Odysseus and Penelope, King Arthur and Guinevere, and others. Students will also be introduced to the theories of Lord Raglan, Joseph Campbell, Vladamir Propp, and Claude Levi-Strauss.

2300 Special Topics in Classics

Introductory topics in Classical literature and culture not covered by regular course offerings. This course may be repeated once with a change in content or topic.

2301 Literature of Ancient Greece

Ancient Greek literature, emphasizing the works of major writers such as Homer, Herodotus, Thucydides, Plato, Aristotle, the orators, and comic and tragic poets. All readings are in English translation.

2302 Literature of Ancient Rome

Literature of the Roman republic and empire, covering authors and texts over a range of around 600 years, from Plautus (ca. 200 BC) to Augustine (ca. 400 AD). Focus is on the major literary figures from this period, their works, and their social and historical contexts. All readings are in English translation.

2306 Greek and Roman Mythology

Myths of ancient Greece and Rome in their historical and cultural context with attention to the ways in which these myths have been interpreted and used.

3300 Special Topics in Classics

Intermediate topics in Classical literature and culture not covered by regular course offerings. This course may be repeated once with a change in content or topic.

3301 Roman Civilization

The customs, religious beliefs, institutions and literature of ancient Rome. Readings in translation include Virgil, Cicero, Tacitus, and/or Seneca.

3302 Greek Civilization

Ancient Greek customs, religious beliefs, art, architecture, literature, and institutions, which serve as a basis for Western Civilization. Readings in translation include Homer, Herodotus, pseudo-Xenophon, Aeschylus, Sophocles, Aristophanes, and lyric poets.

3321 Topography of Rome and Pompeii

Detailed study of the buildings and monuments of Ancient Rome and Pompeii. Readings include primary sources and analyses of excavated material.

3330 Women and Gender in Antiquity

Explores the lives of women in ancient Greece and Rome and their representation in art and literature. Also includes modern theories and definitions of gender.

3340 Race and Ethnicity in Classical Antiquity

Explores how the ancient Greeks and Romans conceptualized race and ethnicity and how they dealt with racial and ethnic differences in their encounters with other peoples. Includes modern debates about race, ethnicity, and identity.

3352 Greek Art (Cross-listed as ART 3352)

See ART 3352 for course description.

3353 Roman Art (Cross-listed as ART 3353)

See ART 3353 for course information.

3360 Greek Painted Pottery (Cross-listed as ART 3360)

See ART 3360 for course information.

3361 Roman Sculpture (Cross-listed as ART 3361)

See ART 3361 for course information.

3380 Classical Mythology

Detailed study of the myths of the Greeks and Romans; Greek and Roman personal religion and folklore. (No credit toward the foreign language requirement.)

3381 Medical Terminology

Study of the medical vocabulary of English, based upon Greek and Latin prefixes, stems, and suffixes.

4300 Medicine and Healing in the Ancient World

Survey of the theory, practice, and literature of western scientific medicine from Hippocrates and the Greeks through the Roman period.

4301 Principles of Classical Studies

Pre-requisite(s): Upper-level standing.

Examination of the major historical figures and intellectual trends of the classical world and examination of the professional life and work of classicists.

4311 Archaeology of Greece

Pre-requisite(s): Consent of instructor.

Study of the monuments, art, and topographical archaeology of Greece from the Bronze Age through Late Antiquity.

4315 Ancient Greek Religion

Pre-requisite(s): Upper-level standing or consent of instructor.

Study of Ancient Greek religion through the literary, artistic, and archaeological sources.

4331 The Archaeology of Sicily and Southern Italy

Study of monuments and topographical archaeology of southern Italy and Sicily. Readings include primary sources and analyses of excavated material.

4340 Special Topics in Classics

Advanced topics in Classical literature and culture not covered by regular course offerings. This course may be repeated once with a change in content or topic.

4350 Augustine's Theological Development (Cross-listed as REL 4350)

See REL 4350 for course information.

4360 Indo-European Language and Culture

Pre-requisite(s): LAT 2310 or GKC 2310; consent of instructor.

The linguistic similarities of the Indo-European language, such as Greek, Latin, and Sanskrit, and their cultural manifestations.

4368 Special Topics in Greek and Roman Art (Cross-listed as ART 4368)

See ART 4368 for course information.

4369 Greek and Roman Sport and Spectacle (Cross-listed as ART 4369)

See ART 4369 for course information.

4V01 Topics in Classical Literature

1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor.

Various texts to be read (in translation) are selected to meet the needs of the student. With content changed, this course may be repeated up to a total of six semester hours.

Communication Sciences and Disorders (CSD)

1308 Survey of Speech Pathology and Audiology

An introduction to the nature and causes of speech, language, and hearing disorders and speech-language pathology as an educational and clinical field.

1360 Introduction to Deaf Education

Practical and legal aspects of Deaf Education, focusing on history of Deaf Education, the role of language and communication, and an overview of deaf programs in diverse settings.

1405 American Sign Language I

Introduction to American Sign Language and Deaf culture: grammar, lexicalized signs, numbers and basic conversational language. Fee: \$50

1406 American Sign Language II

Pre-requisite(s): CSD 1405.

Continuation of CSD 1405. Fee: \$50

2301 American Sign Language III

Pre-requisite(s): Minimum grade of C- in CSD 1406.

Development of intermediate skills with a focus on expressive language: grammar, non-manual markers, classifiers, lexicalized signs, and storytelling. Fee: \$50

2302 American Sign Language IV

Pre-requisite(s): Minimum grade of C- in CSD 2301.

Continuation of CSD 2301: conversation, composition, grammar review, cultural readings, and ASL literature. Fee: \$50

2318 Language Development

Linguistic theory and language development in normal children.

2351 Introduction to Phonological Science

Introduction to the phonological rules and processes of American English and an examination of descriptive, physiological, and acoustic phonetics.

2360 Oral Deaf Education Principles and Practices

Techniques for developing spoken language in children with hearing loss using therapy, linguistic knowledge, technology and practice.

3308 Articulation

Pre-requisite(s): Must have completed and earned a "B" or better in each of the following courses: CSD 1308, 2318, 2351, and 3357.

Disorders of articulation and phonologic processes, including etiology, methods of assessment, and techniques for remediation.

3310 Principles of Interpreting

Pre-requisite(s): CSD 1406.

The profession of interpreting, including Code of Ethics, certification criteria, roles and responsibilities of an interpreter, and compensation.

3312 Deaf Culture

A study of Deaf Culture, with special attention to historical and contemporary perspectives of the Deaf community: history, values, identity and enculturation, family, community, religion, language, arts, and education.

3357 Anatomy and Physiology

A study of the anatomy and physiology of speech.

4249 Clinical Application of Speech-Language Pathology

Pre-requisite(s): CSD 4477 or concurrent enrollment.

Clinical application of approaches for identifying, assessing, and treatment of individuals with communication disorders. Fee: \$50

4301 Introduction to Clinical Audiology

Pre-requisite(s): Must have completed and earned a "B" or better in each of the following courses: CSD 1308, 2318, 2351, and 3357.

Hearing sciences and approaches for evaluating hearing: anatomy and physiology of the ear, the decibel, ear pathology, pure-tone audiometry, speech audiometry, and acoustic-immittance audiometry.

4302 Language Disorders in Children

Pre-requisite(s): Must have completed and earned a "B" or better in each of the following courses: CSD 1308, 2318, 2351, and 3357.

Basic principles of intervention and assessment for children with language impairments.

4308 Disorders of Speech and Swallowing

Pre-requisite(s): Must have completed and earned a "B" or better in each of the following courses: CSD 1308, 2318, 2351, and 3357.

Etiologies, characteristics, diagnosis, and treatment of disorders of speech and swallowing.

4309 Medical Speech Pathology

Pre-requisite(s): Must have completed and earned a "B" or better in each of the following courses: CSD 1308, 2318, 2351, and 3357.

Etiologies, characteristics, diagnosis, and treatment of disorders associated with medical speech pathology.

4312 Advanced Clinical Audiology

Pre-requisite(s): CSD 4301.

Routine and advanced audiologic measures, including masking and evoked-potential tests. Practical clinical experiences.

4322 ASL/English Interpreting I

Pre-requisite(s): CSD 2302.

An introduction to the process of interpreting and development of required skills: communication theory, non-verbal communication, intralingual skills, translation to and from written English texts, and consecutive interpreting. Fee: \$50

4323 ASL/English Interpreting II

Pre-requisite(s): CSD 2302 and 4322.

A continuation of ASL/English Interpreting I. Continued development of necessary interpreting skills, with an emphasis on simultaneous interpreting. Fee: \$50

4352 Diagnostic Methods

Pre-requisite(s): Must have completed and earned a "B" or better in each of the following courses: CSD 1308, 2318, 2351, and 3357.

A study of diagnostic methods used in speech and language pathology, including interviewing, taking case histories, testing, and counseling. Evaluation of the standardization, reliability, and validity of existing tests. Practical application is required.

4358 Speech Science

Pre-requisite(s): Must have completed and earned a 'B' or better in each of the following courses: CSD 1308, 2318, 2351, and 3357.

Basic sciences underlying speech and hearing: physics of sound, the decibel, instrumentation, speech production, speech perception, and audition.

4360 Language and Literacy Instruction for the Deaf I

Pre-requisite(s): CSD 1360.

Contemporary practices in teaching literacy for Deaf/Hard of Hearing students, including bilingual assessment and intervention. Requires practicum hours.

4361 Language and Literacy Instruction for the Deaf II

Pre-requisite(s): CSD 4360.

A continuation of CSD 4360. Requires practicum hours.

4368 Introduction to Aural Rehabilitation

Pre-requisite(s): CSD 4301 or consent of instructor; and must have completed and earned a "B" or better in each of the following courses: CSD 1308, 2318, 2351, and 3357.

Methods for rehabilitating persons with hearing impairment: evaluating communicative needs, amplification devices, auditory-visual training, and modes of communication for the deaf and hearing impaired.

4477 Clinical Methods

Pre-requisite(s): CSD 3308; and must have completed and earned a "B" or better in each of the following courses: CSD 1308, 2318, 2351, and 3357.

Methods for treating individuals who have communication disorders. Observation of therapy conducted in the Baylor Speech, Hearing, and Language Clinic is required.

4660 Internship I Deaf and Hard of Hearing EC-12 Part 1

Co-requisite(s): CSD 4661.

Pre-requisite(s): Minimum grade of B in both CSD 4360 and 4361, and satisfactory performance on the CSD departmental ASL proficiency exam. Full-time teaching experience in a Deaf/Hard of Hearing program. A mentor teacher and Baylor faculty will support teacher candidates as they gradually assume complete responsibilities for teaching. Course includes fifty-minute seminars to be attended each week.

4661 Internship I Deaf and Hard of Hearing EC-12 Part 2

Co-requisite(s): CSD 4660.

Pre-requisite(s): Minimum grade of B in both CSD 4360 and 4361 and satisfactory performance on the CSD departmental ASL proficiency exam. Planning and preparing lessons and materials for full-time teaching. Includes completion of content modules, conferencing with mentor teacher and university supervisor, written lesson reflections, and observation of lessons taught by mentor teachers.

4662 Internship II Deaf and Hard of Hearing EC-12 Part 1

Co-requisite(s): CSD 4663.

Pre-requisite(s): Minimum grade of B in both CSD 4660 and 4661. Continuation of CSD 4660.

4663 Internship II Deaf and Hard of Hearing EC-12 Part 2

Co-requisite(s): CSD 4662.

Pre-requisite(s): Minimum grade of B in both CSD 4660 and 4661. Continuation of CSD 4661.

4V30 Fingerspelling

1 to 3 sem. hrs.

Pre-requisite(s): CSD 1406.

Expressive and receptive fingerspelling, emphasizing whole-word phrase recognition, as well as on reading fingerspelling embedded in signed sentences. May be repeated for up to a total of three credit hours.

4V85 Special Problems in Communication Sciences and Disorders 1 to 3 sem. hrs.

Pre-requisite(s): Fifteen semester hours in Communication Sciences and Disorders.

A conference course providing additional study in communication sciences and disorders. May be repeated once for credit.

4V86 Health Science Leadership: Community Engagement and Service-Learning 1 to 3 sem. hrs.

Intensive integration of academic study and service-learning experiences with the community. Approval to take this course must be obtained from the faculty member and the CSD Chair. This course may be repeated once with faculty approval.

4V87 Health Science Leadership: Applied Research 1 to 3 sem. hrs.

Intensive integration of academic study with an active research project under the supervision of a Communication Sciences & Disorders faculty member. Approval to take this course must be obtained from the faculty member and CSD Chair. This course may be repeated once if research continues.

4V98 Health Science Leadership: Community Engagement and Service-Learning 1 to 3 sem. hrs.

Intensive integration of academic study and service-learning experiences with the community. Approval to take this course must be obtained from the faculty member and the CSD Chair. This course may be repeated once with faculty approval.

Communication Studies (CSS)

1301 Fundamentals of Public Communication

The preparation of public speeches, focusing on adapting messages to audiences. Credit may not be earned for this course if credit is earned in CSS 1302. Fee: \$50

1302 Speech for Business and Professional Students

Preparation and delivery of the types of presentations employed in organizational and corporate settings. Credit may not be earned for this course if credit is earned in CSS 1301. Fee: \$50

1304 Argumentation, Discussion, and Debate

A study of reflective thinking and intentional reasoning as applied to college discussion and debate. Application made to current topics. Fee: \$50

1305 Introduction to Communication

Foundational areas and research methods for the study of communication, including rhetoric and organizational, interpersonal, and nonverbal communication.

2264 Contest Speaking

Interest in University forensic activities. Practice in forensic contests pointing toward the University program. Course extends throughout the year, meeting on Tuesday evenings each week.

2265 Contest Speaking

Continuation of CSS 2264.

3247 Advanced Debate

Pre-requisite(s): Advanced member of University forensic program.

Must be qualified to assist inexperienced students in their preparation. Course extends throughout the school year, meeting on Tuesday evenings each week.

3248 Advanced Debate

Continuation of CSS 3247.

3302 Introduction to Rhetorical Theory and Criticism

Pre-requisite(s): CSS 1301, 1302, or 1304.

Rhetorical theory and criticism, including the history of the field of rhetoric, the theories that guide rhetorical inquiry, and how to compose a rhetorical analysis.

3304 Small-Group Communication

Pre-requisite(s): CSS 1301, 1302, or 1304.

Group interaction in decision-making and problem-solving situations associated with leadership, role development, and conflict management. Fee: \$50

3305 Advanced Public Speaking

Pre-requisite(s): CSS 1301, 1302, or 1304.

Preparation and presentation of extemporaneous and written public speeches. Fee: \$50

3306 Interviewing

Pre-requisite(s): CSS 1301, 1302, or 1304.

Application of communication theory to interview situations with emphasis on developing and using effective strategies. Fee: \$50

3307 Legal Communication

Pre-requisite(s): CSS 1301, 1302, or 1304.

An introduction to the special communication needs and skills of lawyers, clients, and judicial personnel. Students will improve their ability to apply communication principles to professional settings.

3310 Communication Theory

Pre-requisite(s): CSS 1301, 1302, or 1304.

Survey of the theories of human communication.

3311 Interpersonal Communication

Pre-requisite(s): CSS 1301, 1302, or 1304.

Overview of the communication process with emphasis on the theory and practice of communication in dyadic relationships. The course is designed to allow students to: (1) increase their understanding of the process of interpersonal communication, (2) increase their knowledge of the factors involved with interpersonal communication, and (3) to increase their skills and strategies for managing problems of interpersonal communication.

3312 Nonverbal Communication

Pre-requisite(s): CSS 1301, 1302, or 1304.

Nonverbal codes in human interaction in various communication situations.

3314 Cross-Cultural Communication

Pre-requisite(s): CSS 1301, 1302, or 1304.

The theory and research of cross-cultural communication, exploring similarities and differences in communication across cultures.

3316 Persuasion and Communication

Pre-requisite(s): CSS 1301, 1302, or 1304.

A consideration of theoretical and practical aspects of persuasive communication, centering on a discussion of various findings by experimental researchers about the nature of the audiences and messages involved in the persuasive process.

3393 Rhetoric and Contemporary Culture

Pre-requisite(s): CSS 1301, 1302, or 1304.

An introduction to the principles of rhetorical criticism, with emphasis on evaluation of contemporary speeches, films, music, television, and the Internet.

3395 Theories and Methods of Visual Communication

Pre-requisite(s): CSS 1301, 1302, or 1304.

General theories and methods used to analyze visual communication. Considers several divergent schools of thought on the study of visual communication, including aesthetics, representation, semiotics, psychoanalysis, narrative, cultural studies, media studies, and rhetorical studies.

4301 Organizational Communication

Pre-requisite(s): Upper-level standing or consent of instructor.

Communication within the organization and its relationship to organizational structure, roles, leadership, and management orientations.

4302 Communication Training and Development

Pre-requisite(s): Upper-level standing or consent of instructor.

Theory and practice of performing and supervising training activities in an organizational setting. Emphasis on the design, execution, and evaluation of communication training and development programs and strategies. Fee: \$50

4303 Leadership and Communication

Pre-requisite(s): Upper-level standing or consent of instructor.

The intersection between leadership and communication, emphasizing the theory, research, and practice of leadership communication.

4304 Advanced Small Group Theory and Practice

Pre-requisite(s): CSS 1301 or 1302 and CSS 3304; and upper-level standing or consent of instructor.

Examines advanced and complex types of small-group interaction, leadership, and collaboration. Taught in London.

4305 Nonprofit Organizational Communication

Pre-requisite(s): CSS 4301.

Survey of communication dynamics and issues in nonprofit organizations. Emphasis on assessing and developing best practices in external and internal communication. Course topics include: stakeholder messaging, interorganizational collaboration, member relationships, and role development.

4306 Advanced Interviewing

Pre-requisite(s): CSS 3306 or consent of instructor.

Application of survey and probing interview techniques with emphasis on career development.

4310 Politics and Communication (Cross-listed as PSC 4310)

See PSC 4310 for course information.

4311 Conflict and Communication

Pre-requisite(s): Upper-level standing or consent of instructor.

The role of communication in managing conflict in interpersonal, group, organization, and community contexts.

4312 Systemic Inquiry

Pre-requisite(s): Upper-level standing.

Examines advanced and complex types of communication contexts involving relational and group facilitation strategies, systemic interviewing practices, and the development of a basic understanding of systemic inquiry as a communication management strategy. Taught in London.

4313 Communication and the Family

Pre-requisite(s): Upper-level standing or consent of instructor.

Survey of communication issues related to theory and research regarding relationships within the modern family system.

4314 Communication Assessment in Organizational Settings

Pre-requisite(s): CSS 4301 or consent of instructor.

Design and implement a communication assessment of for-profit or non-profit organizations.

4315 Health Communication

Pre-requisite(s): Upper-level standing or consent of instructor.

Health communication theory and practice, including patient-provider communication, healthcare organizational communication, and health information technology.

4316 Advanced Interpersonal Communication

Pre-requisite(s): CSS 3311 and upper level standing or consent of instructor.

Advanced survey of theory and research regarding communication and personal relationships.

4336 Seminar in Contemporary Communication Issues

Pre-requisite(s): Consent of instructor.

Seminar topics vary each semester. May be repeated once with change in topic.

4350 Rhetoric of Women and Gender

Pre-requisite(s): Upper-level standing or consent of instructor.

Analyzes the historical fight for women's rights and contemporary arguments about gender-based rights through the tools of rhetorical criticism.

4351 Criticism of Contemporary Public Address (Cross-listed as PSC 4351)

Pre-requisite(s): Upper-level standing or consent of instructor.

Significant public speeches in contemporary society, with emphasis on applying principles and methods of rhetorical criticism.

4352 Corporate Advocacy and Public Policy

Pre-requisite(s): Upper-level standing or consent of instructor.

Influence of contemporary organizations on public attitudes and public policy through analysis of communication campaigns during both favorable and unfavorable conditions.

4353 Public Discourse and Foreign Policy (Cross-listed as PSC 4335)

Pre-requisite(s): Upper-level standing.

An analytical approach to the discourse generated by United States foreign policy in the post-World War II era. Topics covered include the nature of public opinion and foreign policy, rhetorical and political constraints on foreign policy discourse, and in-depth analysis of the arguments for and against the conflict in Vietnam.

4354 African American Communication (Cross-listed as PSC 4340)

Pre-requisite(s): Upper-level standing.

Rhetorical strategies of African Americans, focusing on the historically important documents of oratory, argumentation, homiletic, and narrative.

4380 Internship in Communication

Pre-requisite(s): Fifteen hours in major and consent of instructor.

Work at appropriate employment site for academic credit to accommodate career needs of communication students. Internships must be approved by the department director of internships. May be repeated for a total of six hours.

4394 Rhetorical Theory

Pre-requisite(s): Upper-level standing or consent of instructor.

Selected theories of persuasion in Western culture from the Greco-Roman period to the present. Topics covered include the relationship of rhetoric and poetic, arguments for a behavioristic approach to rhetoric, and contemporary claims concerning rhetoric as a way of knowing.

4395 Visual Rhetoric

Pre-requisite(s): Upper-level standing or consent of instructor.

Theories and methodologies pertaining to visual rhetoric.

4396 American Rhetoric

Pre-requisite(s): Upper-level standing or consent of instructor.

Origin and development of rhetoric in American social movements, with emphasis on the characteristics of various types of communication situations and the discovery, analysis, and evaluation of common persuasive strategies.

4397 Public Discourse and the Classic Liberal Tradition

Pre-requisite(s): Upper-level standing or consent of instructor.

Analysis of major speeches, pamphlets, and essays in England and America on politics and political change from the early seventeenth century through the American Revolution. Topics addressed include the birth of the public sphere, church and state relations, and natural rights.

4399 Workshop in Directing the Speech Program

Pre-requisite(s): Consent of instructor.

Intended primarily for directors of speech activities in high schools and colleges. May be repeated once for credit.

4V85 Special Problems in Communication

1 to 6 sem. hrs.

Pre-requisite(s): Fifteen semester hours in communication and consent of instructor.

A conference course designed to give individual students opportunities for additional work in their area of concentration in the Department of Communication. One to three hours may be earned in a semester. May be repeated once with change in content for a total of 6 hours.

Computer Science (CSI)

1095 Computer Science First-year Seminar

Pre-requisite(s): Restricted to Computer Science majors

The CS First-Year Seminar is designed to assist new students in making a successful transition from learning in high school (or from another college) to learning at Baylor. Students are guided to accept responsibility for their learning and to understand practices and values that will impact their undergraduate experience; to further instill practicing values that will lead to academic success; and to connect with other new students and faculty members in the department and across campus for the main purpose of helping them be successful in the department of Computer Science, Baylor, and beyond.

1130 Introduction to Python for non-majors

Introduction to programming using the python language. Topics covered include basic data types, writing programs using sequence, branch and loop and using functions from advanced libraries. This course assumes no prior programming experience and does not count towards the computer science degree.

1302 Introduction to Computer Science Education

The uses of computers in the teaching environment. A broad range of computer education topics will be covered which will satisfy state and/or national certification requirements in the area of computer literacy. (Applicable B.S.Ed., but not to a major in computer science.) Fee: \$70

1303 Applications of Information Technology

Use of the Internet, CD-ROM databases, and other electronic and traditional resources for finding and evaluating information. Topics covered will include a history of information processing, the hardware and software systems required, social and ethical issues, and information search strategies. Fee: \$70

1336 Introduction to Programming with Engineering Applications

Pre-requisite(s): EGR 1302.

Introduction to programming and software design in C featuring elementary data structures and engineering application areas.

1337 Introduction to Video Game Design

This course will introduce students to the theory and application of video game design. Students will work in teams to create video games in a game development engine. The students will also learn theory behind good game design, including the use of game rules to enhance gameplay, the creation of virtual worlds, and the use of games as a social experience. No prior programming experience is required. Fee: \$50

1340 Introduction to Computer Science II

Pre-requisite(s): CSI 1430.

Continuation of CSI 1430. Introduction to basic aspects of recursion, search/sort methods, and data structures using C++.

1430 Introduction to Computer Science I with Laboratory

Introduction to computers, problem solving and algorithm development. Design, code, debug and document programs using techniques of good programming style and C++ programming language. Laboratory experiments and examples will be used to illustrate and reinforce concepts taught in the lectures. Fee: \$100

1440 Introduction to Computer Science II with Laboratory

Pre-requisite(s): CSI 1430.

Continuation of CSI 1430. Introduction to basic aspects of arrays, pointers, classes, inheritance, polymorphism, virtual functions, linked lists, stacks, queues, and binary trees. Fee: \$100

1V90 Special Topics in Freshman Computer Science 1 to 4 sem. hrs.

For undergraduates who wish to study introductory topics not available in formal courses within the major. Course may be repeated with a change in content or topic.

2334 Introduction to Computer Systems

Pre-requisite(s): Minimum grade of B in CSI 1440, and credit or concurrent enrollment in CSI 2350.

An introduction to the structure of computer systems and the relationship between software and hardware. Topics include computer organization and representation of information in a computer. An assembly language will be used for programming assignments to illustrate the relationship between high-level languages and machine operations and interpretation of software.

2350 Discrete Structures

Pre-requisite(s): CSI 1440 or concurrent enrollment; MTH 1321 or concurrent enrollment.

An introduction to the foundations of discrete structures as they apply to computer science, focusing on providing a solid theoretical foundation for further work. Topics include sets, ordered structures, graph and trees, functions, proof techniques, number systems, logic, Boolean algebra, etc.

3101 Computers in Society

Pre-requisite(s): A CSI or BINF major with at least junior-level standing; or consent of instructor.

Study of computer ethics, risks, privacy, ownership of software, responsibility and liability, computer crime, and professional codes of conduct as they relate to society.

3130 Introduction to Java

Pre-requisite(s): CSI 3334.

Provide a general introduction to the Java programming language.

3303 Information Technology

Topics covered will include hardware and software systems, social and ethical issues, information search strategies for research, and personal and organizational security issues (not applicable to a major in computer science).

3305 Computational Strategies for Collaborative Problem Solving

This course is an introduction to problem solving from an algorithmic point of view. Techniques covered include logic, sequential execution, conditional execution, looping, and functional decomposition. These elements are not taught as an end in themselves, but rather the intent is to equip students to think about how computation can be a valuable and accessible tool to solve problems in their own areas of specialization. Real problems drawn from many different disciplines motivate the basic concepts in the course. Lab-based assignments include solving given problems using a high-level programming language. (Not applicable to a major in computer science.) Fee: \$100

3324 Numerical Methods (Cross-listed as MTH 3324)

Pre-requisite(s): CSI 1430 and MTH 1321.

Numerical differentiation and integration, linear systems of equations, numerical solutions of ordinary differential equations, curve fitting, and computational techniques.

3331 Survey of Programming Languages

Pre-requisite(s): CSI 3334.

An introduction to the syntax and semantics of programming languages. Actual programming languages are used to illustrate the concepts and virtual architectures of procedural, functional, and object-oriented languages. Fee: \$70

3333 Simulation Models

Pre-requisite(s): CSI 1430 and MTH 1321.

Introduction to simulation and comparison with other techniques. Simulation methodology including generation of random numbers, design of simulation experiments for optimization, analysis of data generated by simulation experiments, and validation of simulation models and results. Fee: \$50

3334 Data Structures

Pre-requisite(s): Minimum grade of B or better in CSI 1440, and CSI 2350.

Software design and construction with abstract data types. Description, performance and use of commonly-used algorithms and data structures including lists, trees, and graphs.

3335 Database Design and Applications

Pre-requisite(s): CSI 3334.

Current relational database design concepts including ER diagrams and normalization. Database access techniques such as SQL and JDBC. Database issues including performance and security. Web-database applications. Fee: \$50

3336 Systems Programming

Pre-requisite(s): CSI 2334.

The organization and structure of computer systems, basic concepts of an operating system, command line interpreter, script programming, and system calls. Programming projects in Unix and C programming language. Fee: \$50

3338 Computer Organization (Cross-listed as ELC 3338)

See ELC 3338 for course information.

3342 Principles of Software Design

Pre-requisite(s): CSI 3335.

An introduction to object-oriented analysis and design. Iterative development; identification of requirements; software development process; UML notation, models and methods; and introduction to design patterns. Software project using an object-oriented language. Fee: \$70

3344 Introduction to Algorithms

Pre-requisite(s): CSI 3334.

This course will provide a comprehensive introduction to computer algorithms taken from diverse areas of application. This course will concentrate on algorithms of fundamental importance and on analyzing the efficiency of these algorithms.

3371 Software Engineering I

Co-requisite: CSI 3130.

Pre-requisite(s): CSI 3334.

Fundamentals of Software Engineering; software development processes, requirements analysis, modular design and implementation of software systems, software testing and evolution. A small project to illustrate and extend concepts from lectures.

3372 Software Engineering II

Pre-requisite(s): CSI 3471.

An engineering approach to software development emphasizing design patterns and techniques for enterprise application development. Completing software project applying development process. Fee: \$50

3373 Software Quality Assurance and Testing

Pre-requisite(s): CSI 3471.

Quality, how to assure it and how to verify that it exists; the need for a culture of quality; how to avoid errors; inspections and reviews; verification versus validation; testing, verification, and validation techniques; process assurance and product assurance; quality process standards; faults; problem analysis and reporting; and statistical approaches to quality control.

3374 Software Project Management

Pre-requisite(s): CSI 3471.

Project planning, cost estimation, and scheduling; project management tools; factors influencing productivity and success; productivity metrics; analysis of options and risks; planning for change; management of expectations; release and configuration management; software process standards and process implementation; and software contracts and intellectual property.

3410 Introduction to Game Development

An introduction to game development, design and production. Aspects of game development and evaluation are introduced, including critical game studies, game design, game programming languages, architecture, mathematics, collision detection, physics, graphics, animation, artificial intelligence, audio, networking, audio visual design and production, game production and the business of games. (Not applicable to a major in computer science.) Fee: \$100

3439 Computer Architecture

Pre-requisite(s): CSI 2334.

Continued study of computer organization, focusing on hardware structure and implementation. Topics include digital logic CPU organization and microprogramming, memory organization, and input/output structures. Fee: \$100

3471 Software Engineering I

Pre-requisite(s): CSI 3334.

Introduction to UML notation; constructing and interpreting use cases; interpreting UML models; introduction to design patterns; introduction to testing; introduction to configuration management; Java as a second language; and implementing a graphical user interface. Laboratory assignments and a small project illustrate and extend concepts from lectures. Fee: \$50

3V90 Special Topics in Intermediate Computer Science 1 to 4 sem. hrs.

Pre-requisite(s): Instructor approval required.

For undergraduates who wish to study intermediate topics not available in formal courses within the major. Course may be repeated with a change in content or topic.

3V95 Internship Experience**1 to 3 sem. hrs.**

Pre-requisite(s): Computer Science major; consent of instructor.

Department arranged/approved summer intern work experience in computer science-related position. Includes a minimum of eight weeks of employment.

4010 Undergraduate Research Seminar

Pre-requisite(s): Consent of instructor.

Introduction of computer science research opportunities to interested computer science undergraduates.

4144 Competitive Learning

Pre-requisite(s): CSI 3334 and consent of instructor.

Students in the course will learn and implement algorithms to solve programming challenges. Topics include graph algorithms, backtracking search, simulation, geometry, combinatorics, number theory, sorting, searching, parsing, and output formatting. The course may be taken up to 3 times for credit.

4301 Cultural Impact of the Computer

Pre-requisite(s): Upper-level standing.

Issues related to the creation and use of computer technology, considered within the broader context of technology and culture. Includes all topics from CSI 3101 as a subset.

4320 Instructional Applications of Computers

Pre-requisite(s): Consent of instructor.

Teaching strategies for teaching about and with the aid of computing, overview of inservice/preservice teacher training programs, certification, CAI, and CBTS. (Applicable to teacher certification in computer science but not to a major in computer science.)

4321 Data Communications

Pre-requisite(s): CSI 3336.

Fundamentals of computer networking including data transmission, communication software, protocols, simple networks and internetworking.

4322 Numerical Analysis (Cross-listed as MTH 4322)

See MTH 4322 for course information.

4328 Numerical Linear Algebra (Cross-listed as MTH 4328)

See MTH 4328 for course information.

4330 Foundations of Computing

Pre-requisite(s): CSI 3344.

Theoretical concepts that form the basis of computer science, including regular languages, context-free languages, Turing-decidable languages, nondeterminism, parsing, NP_Completeness, and undecidability.

4331 Programming Language Design and Implementation

Pre-requisite(s): CSI 4330.

Design and implementation of high-level languages, focusing on compiler design and implementation. Topics include data types, control structures, and the relationship between syntax and semantics. Course project includes designing and programming a compiler.

4335 Database Design I

Pre-requisite(s): CSI 3342.

Concepts for current relational database design and implementation, including SQL, ER diagrams, normalization, JDBC, XML and DBMS components. Semester project designing a relational database. Fee: \$70

4336 Introduction to Computation Theory

Pre-requisite(s): CSI 3344.

Several models of computation and their related languages. Topics will include finite automata and regular languages, push-down automata and context-free languages, linear-bounded automata and context-sensitive languages. Turing machines and phrase structure languages, closure properties, decidability results, non-determinism.

4337 Introduction to Operating Systems

Pre-requisite(s): CSI 3336.

Operating system design and implementation. Topics include process control and synchronization, memory management, processor scheduling, file systems, and security. Course projects implement parts of an operating system. Fee: \$50

4341 Computer Graphics

Pre-requisite(s): CSI 3334 and (MTH 2311 or MTH 2321).

Introduction to graphic representation and display of information and objects by computer. Topics include hardware display technology and algorithms for two-dimensional and three-dimensional graphics. A current graphic system model will be used for programming assignments. Fee: \$50

4342 Gaming Platform Frameworks

Pre-requisite(s): CSI 4341.

Game Framework Design and Development. An introduction to game development platforms. Topics include: Game design principles, project management, game-related algorithms/mathematics, game physics, game audio/video, AI, development tools, and real-time systems. Fee: \$100

4344 Object-Oriented Development

Pre-requisite(s): CSI 3342.

Object-oriented analysis and design methods. Group software projects.

4350 Introduction to Artificial Intelligence

Pre-requisite(s): CSI 3344.

Artificial intelligence techniques and methodology which treat knowledge and knowledge representation, formal logic, (classical propositional logic, first order predicate logic, automated theorem proving), pattern recognition; natural and programming language processing, (syntax, contextual constraints, semantics, compilers, LISP, PROLOG). (3-0)

4352 Introduction to Data Mining

Pre-requisite(s): CSI 3335, CSI 3344.

Introduction to the concepts, techniques, and applications of data warehousing and data mining. Topics include design and implementation of data warehouse and OLAP operations; data mining concepts and methods such as association rule mining, pattern mining, classification, and clustering; applications of data mining techniques to complex types of data in various fields.

43C8 Gaming Capstone Design Project

Pre-requisite(s): CSI 3372, 4321, 4337, and 4342; senior standing.

A semester long project course in which students will create a gaming system. The project requires applying information technology according to established design management practices, including technical presentations (oral and written) by all students. Fee: \$150

43C9 Capstone Design Project

Pre-requisite(s): Senior standing and CSI 3335, 3372, 4321, and 4337.

A semester-long project course in which students will create a computing system. The project requires applying information technology according to established design management practices, including technical presentations (oral and written) by all students. Fee: \$150

4V96 Special Topics in Computer Science

1 to 9 sem. hrs.

Pre-requisite(s): Consent of department chair.

Computer Science Fellows (CSF)**3001 Independent Reading Survey**

Co-requisite(s): CSF 3102.

Exit survey taken at the end of two semesters of junior readings and research to summarize a student's independent readings and research, and to ascertain readiness for the senior thesis.

3101 Advanced Readings and Research I

A one-credit-hour course that is designed to facilitate the beginning phase of the CS Fellows thesis project. The course is conducted under the direction of the director of the CS Fellows program and a faculty research advisor from the student's department, concentration area, or area of research.

3102 Advanced Readings and Research II

Pre-requisite(s): CSF 3101 or concurrent enrollment.

Continuation of CSF 3101. Continued exploration in the Fellow's research field through advanced readings and/or laboratory or field-work procedures, research, writing, and conversations with professors. Includes submission of a formal thesis proposal.

4001 Senior Exit Survey

Co-requisite(s): CSF 4302.

Pre-requisite(s): Completion of CSF 3102 and CSF 3001, and approval of the CS Fellows Director.

Required during the final undergraduate semester for all Computer Science Fellows. Ensures that all CS Fellows requirements have been satisfied.

4302 Fellows Thesis

Co-requisite(s): CSF 4001.

Pre-requisite(s): CSF 4V01 and approval of the CS Fellows Director.

Thesis with final deliverables that include a complete research paper, any client-specific documentation, and a functional prototype.

4V01 Research/Fellows Thesis I**1 to 3 sem. hrs.**

Pre-requisite(s): Completion of CSF 3102 and CSF 3001, and approval of CS Fellows Director.

Fellows will work with their Research Advisor to determine the scope of work required for their research/thesis. Culmination of this course is the submission of the outline, first chapter, and bibliography to the Research Advisor and CS Fellows Director.

Curriculum & Instruction (EDC)**3309 Curriculum and Instruction for All-Level Certification**

All-Level Curriculum and Instruction gives the students information and experiences in the decision-making process of creating an effective learning environment for both elementary and secondary students. The course is designed to provide the student with the expertise to discharge the multiple responsibilities associated with teaching in a professional manner.

3319 Christian Education for Family Life Ministries

This course will develop creative and specialized ministries that meet the needs of persons in ministry. It will help ministers to guide and counsel persons throughout the human growth developmental process. It will help persons in ministry develop, evaluate, and administer curriculum plans. Also, it will enable church members to perform functions of church education.

3336 Adult Literacy Instruction

A study of adult literacy instructional techniques and materials. A practicum is included.

Economics (ECO)**1305 Issues in Economics for Non-Business Majors**

Note: ECO 1305 does not count towards either an economics major or a business degree.

This course provides an introduction to basic economic concepts, models, and tools used in economic analysis. In order to develop an appreciation for the value of economic analysis, applications are emphasized throughout the course. Students have the opportunity to apply the tools of economic analysis to a variety of issues including price controls, taxes, poverty, pollution, discrimination, competitive and monopolistic markets, economic growth, inflation and unemployment.

1380 Introduction to Economic Analysis and Policy

Pre-requisite(s): Admission in the University Scholars Program, Baylor Business Fellows Program, or Honors Program; or consent of department.

The nature and outcomes of economic decision-making at the individual, market, and aggregate levels. Rooted in traditional neoclassical economics and augmented with insights from the literature on transactions costs and institutions. Special attention is paid to questions of morality underlying economic decision-making.

2306 Principles of Microeconomics

Pre-requisite(s): Cumulative GPA of 3.0 or higher.

Microeconomic analysis including the theories and applications of demand, production, industrial organization, international trade, and Christian ethics in economic decisions.

2307 Principles of Macroeconomics

Pre-requisite(s): Cumulative GPA of 3.0 or higher. A minimum grade of C in ECO 2306.

A study of basic economic concepts, business organization, economic role of government, national income analysis, national income theory, money and banking, and the business cycle.

3305 Money and Banking

Pre-requisite(s): A minimum grade of C in ECO 1380 or a minimum grade of C in ECO 2306 and 2307; and a minimum grade of C in MTH 1309 or MTH 1321.

A study of the structure and functioning of American financial institutions; the functioning of financial markets and the nature of security prices and interest rates; the basic concepts of bank management; the nature of money and the role of the central bank in its creation; the basic structure of the economy and the impact of monetary actions on this structure; and the basic tenets of Monetarism and modern Keynesian monetary theory.

3306 Intermediate Microeconomic Analysis

Pre-requisite(s): A minimum grade of C in ECO 1380 or a minimum grade of C in ECO 2306 and 2307; and a minimum grade of C in MTH 1309 or MTH 1321.

Designed to provide an intensive study of contemporary microeconomic theory. Topics include consumer demand; market structure; production theory; the nature and behavior of costs; the pricing and allocation of productive resources; and the distribution of income. Emphasis is given to the use of these tools in business decision making.

3307 Intermediate Macroeconomic Analysis

Pre-requisite(s): A minimum grade of C in ECO 1380 or a minimum grade of C in ECO 2306 and 2307; and a minimum grade of C in MTH 1309 or MTH 1321.

Theories of long-term growth and short-term fluctuations in national economies, with emphasis on the macroeconomic implications of government policy. Topics include the national income accounting, long-run economic growth, unemployment, inflation, interest rates, exchange rates, international trade and investment, alternative theories of the business cycle, monetary policy, and fiscal policy.

3308 Engineering Economic Analysis

Designed to provide an economic foundation for engineering decisions. The course stresses methods for making optimum choices among engineering alternatives. Topics include cash flow and present value analysis; break-even analysis; the impact of taxes and inflation on investment decisions; methods for assigning costs; the treatment of risk in decision making; and capital budgeting. (Will not count toward a major in economics.)

3331 International Economics

Pre-requisite(s): A minimum grade of C in ECO 1380, or a minimum grade of C in ECO 2306 and ECO 2307; and junior standing.

International trade theories, trade policies and their effects, regional economic integration, international economic organizations, trade problems of less developed countries, determination of exchange rates, and functioning of the international monetary system. A student may not earn credit in both ECO 3331 and INB 3332.

**3355 Introduction to the Economics of Poverty and Discrimination
(Cross-listed as SOC 3355)**

Pre-requisite(s): Upper-level standing; not open to pre-business or business students.

This course develops and applies basic economic concepts to questions of poverty, inequality, and discrimination in the United States, and to global poverty issues. Special attention will be paid to the contribution economic principles can make to understanding family structure, participation in the labor force, and gender and racial discrimination. Attention will also be paid to evaluating public policies designed to ameliorate poverty and discrimination, including social insurance, welfare programs, minimum and living wage laws, and equal opportunity policies. No previous knowledge of economics is necessary; all necessary economic principles will be developed in this class. (Will not count toward a major in economics.)

3390 Topics in Economics

Pre-requisite(s): A minimum grade of C in ECO 1380 or a minimum grade of C in ECO 2306 and 2307; and a minimum grade of C in MTH 1309 or MTH 1321.

Topics in the study of economics not covered by regular course offerings. Course may be repeated once for credit when topics vary.

4306 Welfare Economics

Pre-requisite(s): A minimum grade of C in ECO 3306.

Economic efficiency and its implications for social organization, human flourishing, and policy. Defining, measuring, and finding the means of achieving optimal human wellbeing. Pareto efficiency and the conditions necessary for it based on the Fundamental Theorems of welfare economics, and its application to markets, private organizations, government, and policy choices.

4312 Business Cycles and Forecasting

Pre-requisite(s): A minimum grade of C in ECO 1380 or a minimum grade of C in ECO 2306 and 2307; BBA students must be admitted to the Business School in order to take this course.

Examines basic causes of fluctuation in business activity. Topics include an examination of exogenous and endogenous influences on Gross National Product and other measures of economic activity, and the relationship between cycles in Gross National Product and cycles in particular industries and companies. The course emphasizes methods and techniques currently in use by business forecasters. Fee: \$50

4314 Behavioral and Experimental Economics

Pre-requisite(s): A minimum grade of C in ECO 1380, or a minimum grade of C in ECO 2306; not open to pre-business students.

Application of the scientific method to economics using laboratory experimentation to test economic theories about individual and group behavior. Introduction of insights to economic modeling from psychology and other social sciences. Emphasis on the frontiers of research through study of journal articles.

4316 Economics of Firms, Industries, and Markets

Pre-requisite(s): ECO 3306; not open to pre-business students.

Examines the economic organization of industry; a survey of major theoretical and applied issues in the field of industrial organization. Topics include theory of the firm, the welfare consequences of competition and market power, goals of the firm and market effects, collusion, mergers, price discrimination, product differentiation, predation, and public policy.

4317 The Economics of Regulation

Pre-requisite(s): A minimum grade of C in ECO 3306.

The impact of government on market outcomes and business decision-making. Topics covered include the historical development of business and public policy, the current state of antitrust enforcement; issues involving multinational corporations; the basis for regulated markets and forces favoring deregulation; the impact of consumer protection laws, environmental protection policies, occupational and safety enforcement; and affirmative action policies on business; and the outlook for government and business relations in the future.

4318 Law and Economics

Pre-requisite(s): A minimum grade of C in ECO 3306.

Interrelationship of microeconomic theory and the law. The course looks at both the effects of law on economic activity and the effects of economic forces on the development of the law. Particular areas of law that will be discussed include property, contracts, torts, and procedure.

4319 Game Theory

Pre-requisite(s): A minimum grade of C in ECO 1380, or a minimum grade of C in ECO 2306; not open to pre-business students.

An elementary examination of the theory of games and strategic behavior with an emphasis on applications. Topics discussed include strategic form games, extensive form games, and games of asymmetric and incomplete information. Various equilibrium concepts will be discussed. Applies game theoretic concepts to strategic behavior in the social sciences, particularly economics and political science, with applications ranging from cartel behavior to international diplomacy.

4320 The Economics of Government

Pre-requisite(s): A minimum grade of C in ECO 3306

Sources of public revenues, problems of the revenue system, public expenditures and budgeting, and public borrowing.

4321 Energy Economics (Cross-listed as AVS 4321 and ENV 4321)

See ENV 4321 for course information.

4323 The Environment and Economic Analysis (Cross-listed as AVS 4323 and ENV 4323)

See ENV 4323 for course information.

4325 Urban and Regional Economic Analysis

Pre-requisite(s): A minimum grade of C in ECO 1380 or a minimum grade of C in ECO 2306 and ECO 2307; and junior standing; not open to pre-business students.

Focuses on the use of economic tools to analyze the key intraregional markets-land and housing, transportation, labor and public services and examines their public policy implications. Also examines interregional relationships, the growth and decline of cities, and the economics of urbanization.

4333 Foreign Exchange Markets (Cross-listed as INB 4333)

Pre-requisite(s): A minimum grade of C in ECO 1380, or a minimum grade of C in ECO 2306 and 2307; junior standing; BBA students must be admitted to the Business School in order to take this course.

Description and analysis of currency markets, emphasizing their roles in the business environment. Topics include spot forward, futures, and options markets, currency, and interest rate swaps, models of exchange rate determination, the operation and relative merits of fixed and flexible exchange rate systems, and the management of exchange rate risk by business.

4334 Economic Development (Cross-listed as INB 4334)

Pre-requisite(s): A minimum grade of C in ECO 1380, or a minimum grade of C in ECO 2306 and 2307; junior standing; BBA students must be admitted to the Business School in order to take this course.

Critical analysis of current explanations of economic growth and development, involving historical aspects, policies for achieving development in emerging countries, and conditions necessary for continued growth in advanced countries.

4335 Asian Economic Development (Cross-listed as AST 4335 and INB 4335)

Pre-requisite(s): ECO 1305 or a minimum grade of C in ECO 2306 and 2307; junior standing; BBA students must be admitted to the Business School in order to take this course.

A survey of the evolution of selected economies of Asia, with the aim of identifying in each case those conditions and policies which have aided or hindered economic progress.

4336 Economics of Labor

Pre-requisite(s): ECO 3306; BBA students must be admitted to the Business School in order to take this course.

Neoclassical approach to labor market analysis. Special attention is paid to the study of labor market phenomena from a microeconomic perspective, including the theory of wage rate determination, the concept of investment in human capital, the problems of race and sex discrimination, unemployment, and the impact of unionization on the structure of wages. Upon completion of this course a student will have a general working knowledge of the state of the art in labor market analysis and research.

4338 Economic Systems of the World (Cross-listed as AST 4338 and INB 4338)

Pre-requisite(s): Junior standing; BBA students must be admitted to the Business School in order to take this course.

An examination of the institutional structures and relative performance of representative capitalist and socialist economies of the world. Countries surveyed include the United States, Britain, France, Germany, Japan, the former Soviet Union, Hungary, China and Yugoslavia.

4343 History of Economic Thought

Pre-requisite(s): A minimum grade of C in ECO 1380, or a minimum grade of C in ECO 2306 and 2307; junior standing; BBA students must be admitted to the Business School in order to take this course.

Development of economic thought in relation to its economic and institutional background from the ancient philosophers to Alfred Marshall and neoclassical economists. Emphasis is placed on the contributions to economic thought of the founders.

4345 Mathematical Analysis in Economics

Pre-requisite(s): A minimum grade of C in ECO 3306.

Designed to acquaint the student with rudimentary mathematical techniques and their application to economic analysis.

4347 Econometrics

Pre-requisite(s): A minimum grade of C in ECO 1380, or a minimum grade of C in ECO 2306 and 2307; a minimum grade of C in QBA 3305, STA 2381, or STA 3381; BBA students must be admitted to the Business School in order to take this course.

Elementary and advanced topics in the application of statistical methods to economic inquiry. Multiple regression, forecasting, advanced estimation processes and simultaneous equation techniques are emphasized. The detection and treatment of problem areas are also examined. Fee: \$50

4349 Causal Inference and Research Design

Pre-requisite(s): A minimum grade of C or better in ECO 4347.

Introduction to modern tools for determining the existence of causal relationships among variables. Emphasizes both the design of the research process and the use of advanced econometric techniques.

4350 Economics of Health and Medical Care

Pre-requisite(s): A minimum grade of C in ECO 1380, or a minimum grade of C in ECO 2306; BBA students must be admitted to the Business School in order to take this course.

Economic aspects of health and medical care: theory, empirical evidence, history, institutions, and public policy.

4351 Data Science I

Pre-requisite(s): A minimum grade of B in ECO 4347.

Best practices in data collection, cleaning, manipulation, and data and code management. Methods and principles of data exploration and visualization. Unsupervised statistical learning techniques, supervised statistical learning techniques, and false discovery principles.

4352 Data Science II

Pre-requisite(s): A minimum grade of B in ECO 4347 and 4351.

Assessing model accuracy, resampling methods, model selection, regularization, and dimension reduction. Machine learning techniques and their applications in economic research.

4355 Economics of Poverty and Discrimination (Cross-listed as SOC 4355)

Pre-requisite(s): Minimum grade of C in ECO 2306; BBA students must be admitted to the Business School in order to take this course.

Market and non-market issues in income determination. Emphasis on the supply and demand model and its application to the analysis of poverty and the poverty population. The effects of labor incomes and demographic and institutional factors of living standards, achievements, and shortcoming of income maintenance (welfare), equal opportunity and employment programs will be analyzed.

4380 Economic Reasoning and Policy Analysis

Pre-requisite(s): ECO 3306, 3307, and 4347 recommended; BBA students must be admitted to the Business School in order to take this course.

An integrative capstone course for economics majors in which the technique of economic analysis is applied to a wide range of issues. Emphasis on the application of basic and advanced economic theoretical and empirical techniques to the analysis of issues relevant to the student's undergraduate degree program and career goals. Basic concepts emphasized throughout the course includes the effect of incentives on behavior, the role of markets as resource allocation mechanisms, and the use of optimization analysis as a standard for comparing outcomes.

4390 Advanced Topics in Economics

Pre-requisite(s): Minimum grade of C in ECO 3306.

Advanced topics in the study of economics not covered by regular course offerings. Course may be repeated once for credit when topics vary.

4V98 Special Studies in Economics 1 to 6 sem. hrs.

Pre-requisite(s): Not open to pre-business students.

With the consent of the chair of the Department of Economics, this course may be taken for one to six semester hours of credit.

Education (EDU)

2305 Technology-based Communication Tools - A

Basic keyboarding skills. EDU 2305 may be taken without taking 2306. Personal communication through the use of technology. Students will use application software and the computer to facilitate learning and to meet course criteria. Lab experiences required.

2306 Technology-based Communication Tools - B

Pre-requisite(s): EDU 2305.

Continuation of EDU 2305.

2V99 Foreign Study/Teacher Education

1 to 15 sem. hrs.

Educational Leadership (EDL)

**4363 Philosophy, Principles, and Administration of Human Performance
(Cross-listed as HP 4363)**

See HP 4363 for course information.

Educational Psychology (EDP)

2350 Teaching Gifted and Talented

Pre-requisite(s): Completion of TED 1312 or concurrent enrollment.

This course provides information about characteristics of gifted and talented learners and their needs. Students will learn the role of a teacher and instructional strategies related to guided research that are then applied in one-to-one teaching experiences.

2360 Teaching Special Education

This course provides initial preparation in the role of a special education teacher. Students will learn teaching techniques and strategies for students with mild disabilities that are then applied in a one-to-one or one-to-two teaching experience.

3324 Learning and Development

A study of the relationship between development and learning. Physical, cognitive, personal, social, moral, and language development as well as selected theories of learning and motivation are considered. (Credit may not be earned for this course if credit is earned in EDP 3325.)

3325 Introduction to Educational Psychology

The principles of educational psychology as applied to teaching. Content of the course includes the principles of human growth and development, learning, motivation, and measurement as they relate to the role of the teacher. Special problems related to the effect of cultural and economic factors will also be included. (Credit may not be earned for this course if credit is earned in EDP 3324.)

3326 The Developing Child

A study of the physical, cognitive and affective development of a child from prenatal to eighteen years of age. Emphasis is placed on current literature, research findings and development theories.

3327 Assessment Theory and Exceptionality

A study of the process of collecting data for the purpose of assessing individual differences and making decisions about the education of exceptional students.

3330 Early Childhood Intervention (ECI): An Interdisciplinary Approach

An introductory course in child development is recommended as a Pre-requisite(s). Family-centered, interdisciplinary services for young children at-risk for developmental disabilities. Students will study the history, rationale, controversies, and current best practices within the field of early intervention.

3334 Collaborative Consultation in Special Education

Pre-requisite(s): EDP 2360; EDP 3470; EDP 3368; EDP 3660 and EDP 4352.

A course emphasizing collaborative consultation processes with parents, teachers, support personnel, school administrators and students. Includes twenty hours of field experiences.

3361 Developmental Disabilities

In this course a review of normal human development provides the basis for an in-depth study of the etiology, characteristics, treatment, and prevention of developmental disabilities including autism, cerebral palsy, learning disabilities, intellectual disabilities, and seizure disorders.

3362 Teaching Associate Special Education Part II

Pre-requisite(s): EDP 3660

Co-requisite(s): EDP 3379.

This practicum provides a field experience in the assessment, education, and management of students with moderate, severe, and profound disabilities.

3368 Assessment of Students with Mild Disabilities

Co-requisite(s): EDP 3470.

Pre-requisite(s): EDP 2360.

A course focusing on formal and informal assessment currently used in special education for students with mild disabilities. The completion of a case study requiring the administration, scoring, and interpretation of individual assessments is included.

3376 Applied Behavior Analysis

Analysis and management of problem behaviors. Emphasized topics include behavior measurement techniques, functional assessment procedures, and behavior intervention methods.

3379 Education of Students with Moderate-Severe Disabilities

Co-requisite(s): EDP 3362.

Emphasis is on specially designed instruction and assessment of individuals with moderate to severe disabilities from infancy to adulthood including teaching techniques, assistive technology, and transition.

3470 Literacy for Students with Special Needs

Co-requisite(s): EDP 3368.

Pre-requisite(s): EDP 2360.

A lab-based course involving application of methods for teaching oral/written language and reading to students with special needs. Includes sixty hours of field experience. Fee: \$60

3650 Teaching Associate Gifted Education Part I

Pre-requisite(s): Credit or concurrent enrollment in EDP 2350; and EDP 3324, and EDP 3326.

In this course, teacher candidates teach small groups of gifted and talented and general education students within a specific disciplinary area that matches their certificate areas. The practicum consists of 97.5 hours in a professional development or partner school (7.5 hours per week). Teacher candidates will work with small and large groups of students. Course includes a weekly seminar.

3660 Teaching Associate Special Education Part I

Pre-requisite(s): EDP 2360, EDP 3470, EDP 3368, and EDP 4352.

A practicum of one hundred hours providing experience in adapting instruction for learners with special needs within the general education classroom. Students learn how to manage behavior, adapt lessons, individualize instruction, and correlate multi-level materials in a field-based setting. Course includes a weekly seminar.

4341 The Adult Learner

Characteristics of the young and mature adult learners with an emphasis on intellectual and social development. An analysis of theories of adult learning is included.

4350 Introduction to the Gifted Child

Historical overview of the field, definitions, basic terminology, theories, models, and characteristics of the gifted and talented. A brief overview of identification procedures, program prototypes, teacher characteristics, and curriculum models is also provided.

4351 Differentiated Instruction

Pre-requisite(s): EDP 2350 or EDP 2360.

Historical, philosophical, and theoretical background of curriculum differentiation and specific strategies to adapt instruction for individual student differences related to rate, content, and preferences. Emphasis on best practices in differentiated instruction as demonstrated by empirical research.

4352 Exceptionalities

Pre-requisite(s): EDP 2350 or EDP 2360 or consent of instructor.

Historical foundations, laws, policies, and issues regarding definitions and the identification of individuals with exceptional learning needs, including those from culturally and linguistically diverse backgrounds.

4379 Education of Students with Moderate-Severe Disabilities

Co-Requisite(s): EDP 4377.

Pre-requisite(s): EDP 3376 and admission to teacher education.

Types, characteristics, etiologies, education and treatment of individuals with moderate to severe disabilities from infancy to adulthood.

4383 Adapting Instruction for Special Needs Learners

Pre-requisite(s): EDP 3376 and admission to teacher education; EDP 4378.

Students acquire various methods for adapting for learner differences within the general education classroom including redesigning direct teaching lessons, developing assessment tasks, correlating multi-level activities, individualizing, and mastery learning. Emphasis will be placed on strategies for classroom organization and management such as grouping, scheduling, room arrangement, and record keeping.

4468 Math for Learners with Special Needs

Pre-requisite(s): EDP 2445 and admission to teacher education.

A field-based course involving application of direct instruction methods in mathematics to students with a variety of learning needs. Emphasis is placed on analyzing and sequencing the essential elements of mathematics to facilitate mastery. Includes sixty hours of field experience in a multicultural setting.

4650 Internship Gifted and Talented Part I

Co-requisite(s): EDP 4651.

Pre-requisite(s): Grade of B or better in EDP 3650 and EDP 2350.

Full-time teaching experience in a classroom with specific emphasis on gifted and talented students. A mentor teacher and resident faculty will support teacher candidates as they gradually assume complete responsibilities for teaching. Course includes two eighty-minute seminars per week.

4651 Internship for Gifted and Talented Part II

Co-requisite(s): EDP 4650.

Pre-requisite(s): Grade of B or better in EDP 3650 and TED 3651.

Planning and preparing lessons and materials for full-time teaching with specific emphasis on gifted and talented students. Include completion of content modules, conferencing with mentor teacher and university instructor, written lesson reflections, observation of lessons taught by master teachers, and preparation of web-based portfolio.

4660 Internship Special Education Part I

Co-requisite(s): EDP 4661.

Pre-requisite(s): Grade of B or better in EDP 3660.

Full-time teaching experience in a professional development school with students who have special learning needs. A special education mentor teacher and resident faculty will support teacher candidates as they gradually assume complete responsibilities for teaching. Course includes two eighty-minute seminars per week.

4661 Internship Special Education Part II

Co-requisite(s): EDP 4660.

Pre-requisite(s): Grade of B or better in EDP 3660.

Planning and preparing lessons and materials for full-time teaching of students with special needs. Includes completion of content modules, conferencing with mentor teacher and university instructor, written lesson reflections observation of lessons taught by master teachers, and preparation of web-based portfolio.

4662 Internship Special Education Part III

Co-requisite(s): EDP 4663.

Pre-requisite(s): Grade of B or better in EDP 3660 and EDP 3661.

Continuation of EDP 4660 and EDP 4661.

4663 Internship Special Education Part IV

Co-requisite(s): EDP 4662.

Pre-requisite(s): Grade of B or better in EDP 3660 and EDP 3661.

Continuation of EDP 4660 and 4661.

4V75 Practicum: Teaching in Today's Schools

1 to 6 sem. hrs.

Pre-requisite(s): Consent of instructor.

A practicum for students in the two-semester professional development school cohort. The course provides supervised practice in all student teacher proficiencies. This experience includes practice in: classroom organization and management, assessment, planning/delivery of instruction, adapting instruction for individual needs, collaboration technology and professionalism. A minimum of 40 hours of experience is required for each hour of credit.

Electrical & Computer Engineering (ELC)

2130 Electrical Circuit Laboratory

Co-requisite(s): ELC 2330.

Laboratory experience in electrical circuit design using discrete components, standard bench equipment, and simulation in modern CAD software. Fee: \$150

2137 Digital Logic Design Laboratory

Co-requisite(s): ELC 2337.

Pre-requisite(s): EGR 1302 or CSI 1336.

Laboratory experience in digital circuit design using modern CAD tools and programmable logic devices. Fee: \$150

2320 Electric Circuit Theory for non-ECE majors

Pre-requisite(s): Completion of EGR 1302 with a grade of B or better, MTH 1322, and credit or concurrent enrollment in PHY 1430.

Linear circuit elements, sources, Kirchhoff's laws, mesh and node equations, Thevenin and Norton equivalent circuits, resistive network analysis, sinusoidal steady-state analysis, power, transient analysis of simple circuits. Does not apply toward the degree requirements of Electrical and Computer Engineering majors.

2330 Electrical Circuit Theory

Co-requisite(s): ELC 2130.

Pre-requisite(s): Completion of EGR 1302 with a grade of B or better, MTH 1322, and credit or concurrent enrollment in PHY 1430.

Linear circuit elements, sources, Kirchhoff's laws, mesh and nodal analysis, Thevenin and Norton equivalent circuits, resistive network analysis, sinusoidal steady-state analysis, AC and DC power, transient analysis of RL, RC, and RLC circuits.

2337 Digital Logic Design

Co-requisite(s): ELC 2137

Pre-requisite(s): Completion of EGR 1302 with a grade of B or better.

Boolean algebra, number systems and representations, analysis and design of combinational and sequential logic circuits, minimization, small- and medium-scale integrated devices, programmable logic, and simulation of digital circuits. (3-0).

2V97 Special Topics or Project (Cross-listed as EGR 2V97)

1 to 3 sem. hrs.

Pre-requisite(s): Consent of department chair.

This special registration permits the completion of degree requirements for transfer or other students, program requirement changes, or other special circumstances in which students have partial but not full credit toward a specific degree requirement. It also provides the opportunity for recognition of supervised academic experiences that are in addition to degree requirements. Registration requires approval by the department chair and sponsoring faculty member. The determination of degree credits is at the time of registration. One to three hours. Fee: \$50

3114 Electronic Design Laboratory

Pre-requisite(s): Credit or concurrent enrollment in ELC 3314.

Laboratory experience in electronic design. Fee: \$150

3314 Electronic Design

Pre-requisite(s): CHE 1301, ELC 2130, and ELC 2330 and credit or concurrent enrollment in ELC 3335 and ELC 3114.

Analysis and design of analog and digital electronic circuits using diodes, bipolar transistors, and field effect transistors. Design and application of digital and analog circuits.

3331 Electrical Networks and Systems

Pre-requisite(s): ELC 2330.

AC circuits and power, magnetically coupled circuits, analysis of networks and systems by Laplace and Fourier transform and state-variable methods, two-port networks, frequency response and network functions, transmission lines, and 3-phase ac power.

3335 Signals and Systems

Pre-requisite(s): ELC 2330, MTH 2311 and MTH 3325.

Analysis of signals and systems in the time domain using differential equations and convolution with the impulse response, and in the frequency, domain using Fourier series, Fourier transforms, and Laplace transforms with transfer functions. (3-0)

3336 Microprocessor Systems

Pre-requisite(s): ELC 2337 and either CSI 1336 or 1430.

Program development of microprocessor systems using assembly and C/C++ programming languages. Topics include processor architecture, data representation, exceptions, I/O devices, memory management, and real-time operating system principles. (3-0) Fee: \$150

3337 Applied Electromagnetic Fields

Pre-requisite(s): ELC 2330.

Vector description of the electric and magnetic properties of free space (using the laws of Coulomb, Ampere, and Faraday). Maxwell's electromagnetic field equations. Wave propagation in unbounded regions, reflection and refraction of waves, waveguides, and transmission lines. (3-0)

3338 Computer Organization (Cross-listed as CSI 3338)

Pre-requisite(s): ELC 2337 and 3336, or CSI 3439.

Introduction to the organization and design of general-purpose digital computers. Topics include instruction sets, CPU structures, hardwired and microprogrammed controllers, memory, I/O systems, hardware description languages and simulations. (3-0) Fee: \$50

4318 Avionics System Design (Cross-listed as AVS 4318)

Design of avionics systems for civil and military aircraft. Topics include avionics system technology and architectures; system engineering principles; radar, electro-optical, and radio frequency sensors; displays; and communication and navigation systems.

4320 Introduction to Optics

Pre-requisite(s): ELC 3335.

Geometrical optics, electromagnetic waves, diffraction, interference, polarization, Fourier optics, laser fundamentals, and optical communication basics. Laboratory sessions include semiconductor laser measurement, fiber optic coupling, and Michelson interferometer setup. Fee: \$50

4330 Introduction to Robotics (Cross-listed with ME 4330)

Pre-requisite(s): MTH 2321 and MTH 3325.

Analysis of robot manipulators, including forward and inverse kinematics, rigid-body rotation parameterizations, velocity kinematics, path planning, nonlinear dynamics, single and multi-variable control. (3-0) Fee: \$50

4332 Automatic Control Systems

Pre-requisite(s): ELC 3335.

Analysis and design of linear feedback control systems. Laplace transforms, transfer functions, signal-flow graphs, electrical and mechanical system modeling, state variables, system stability, time-domain response, root-locus method, Nyquist criterion, and compensator design. Laboratory exercises to illustrate course concepts. (2-3) Fee: \$100

4335 Systems Modeling and Control

Pre-requisite(s): ELC 2320 or ELC 2330, and ME 4325.

Modeling, analysis, design, and control of dynamic systems involving mechanical, electrical, thermal, and fluid components. System behavior in time and frequency domains, state-space formulation, feedback control. Fee: \$100

4340 Power Systems

Pre-requisite(s): ELC 3335.

Analysis of power systems, including energy sources, transmission lines, power flow, transformers, transmission and distribution systems, synchronous generators, stability, power system controls, short-circuit faults, and system protection.

4345 Power Electronics

Pre-requisite(s): ELC 3314 and 3114.

Introduction to power electronic systems with emphasis on power control and switching circuits for AC/DC, DC/DC, and DC/AC converters. Associated laboratory component. (2-3) Fee: \$100

4350 Principles of Communication

Pre-requisite(s): ELC 3335 and STA 3381.

Signal analysis, modulation techniques, random signals and noise, digital transmission, information theory, coding. (3-0)

4351 Digital Signal Processing

Pre-requisite(s): ELC 3335 and STA 3381.

Discrete-time signals and systems, sampling theory, z-transforms, spectral analysis, filter design, applications, and analysis and design of discrete signal processing systems. Credit cannot be earned for ELC 4351 if credit is earned for BME 4452. (3-0)

4353 Image Formation and Processing (Cross-listed with BME 4353)

Pre-requisite(s): Credit or concurrent enrollment in ELC 4335 and STA 3381.

Introduction to image formation systems that provide images for medical diagnostics, remote sensing, industrial inspection, nondestructive materials evaluation and optical copying. Image processing, including image enhancement, analysis, and compression. Student specialization through assignments and project. (3-0)

4360 Software Systems

Pre-requisite(s): ELC 3336.

Software engineering methods and tools. Topics include the development lifecycle, requirements, specifications, design, implementation, verification, validation, and maintenance, project management and professional ethics. (3-0)

4362 Wireless Sensor Networks

Pre-requisite(s): ELC 3338, ELC 3314, and ELC 3114 or consent of instructor.

Characterization and design of large-scale wireless sensor networks. Topics include wireless channel utilization, media access protocols, routing, energy management, synchronization, localization, data aggregation, and security. Laboratory exercises using wireless sensor devices, cross-development, and real-time operating systems. (2-3) Fee: \$150

4372 Bioinstrumentation (Cross-listed as BME 4372)

Pre-requisite(s): ELC 2330.

Principles of biomedical instrumentation and their real-world applications. Emphasis on understanding the basic design principles and technologies used in bioelectrical, biomechanical, and clinical instrumentation. (2-3)

4377 Solar Energy (Cross-listed as ME 4377)

Pre-requisite(s): ELC 2330 and ME 2345.

A first course in the principles of solar energy collection, conversion and storage. Topics include solar photovoltaic and thermal collectors, sun-earth geometry, ground and sky radiation models, and balance-of-system components including stratified tanks, pumps, and power inverters. Students will learn industry-standard TRNSYS energy modeling software. Fee: \$50

4381 Antennas and Wireless Propagation I

Pre-requisite(s): ELC 3337.

Fundamentals of radiation and propagation, antenna parameters, linear antennas, linear and planar phased arrays, and microstrip antennas. Analysis and design principles, simulation and measurement. Fee: \$50

4383 RF/Microwave Circuits I

Pre-requisite(s): ELC 3337.

Introduction to passive RF, microwave, and wireless circuit design. Topics include transmission line theory; network analysis; impedance matching techniques; design of resonators, couplers, and filters; diodes; mixers; and principles and techniques of microwave measurements. Fee: \$150

4384 RF/Microwave Circuits II

Pre-requisite(s): ELC 4383.

This is a second course in radio-frequency and microwave circuits covering microwave amplifier and oscillator design. Topics include the ZY Smith chart, matching network design, gain calculations, design for amplifier stability, noise figure and low-noise amplifier design, gain matching, and negative resistance oscillator design. A final project will require the design, simulation, construction, and testing of an amplifier using microwave CAD tools and hands-on measurements. Fee: \$100

4396 Special Topics in Electrical or Computer Engineering

Pre-requisite(s): Consent of department chair.

Study of advanced topics in electrical or computer engineering. This course may be repeated once under a different topic.

4438 Embedded Systems Design

Pre-requisite(s): ELC 3336.

Design and implementation of embedded computer systems using microcontrollers, sensors and data conversion devices, actuators, visual display devices, timers, and applications specific circuits. Software design using microprocessor cross-development systems and real-time operating system principles. (3-3) Fee: \$150

4V97 Special Projects in Electrical or Computer Engineering

1 to 6 sem. hrs.

Pre-requisite(s): Consent of department chair.

Advanced topics and/or special project activities in electrical or computer engineering.

Engineering (EGR)**1095 EGR First-Year Seminar**

Pre-requisite(s): This course is limited to students in one of the degree plans within the engineering departments.

The EGR First-Year Seminar is designed to assist new students in making a successful transition from learning in high school (or from another college) to learning in engineering at Baylor.

1301 Introduction to Engineering

Pre-requisite(s): Pre-engineering major. Credit or concurrent enrollment in MTH 1320 or credit or concurrent enrollment in MTH 1321.

Introduction to the engineering profession. Topics include engineering disciplines, ethics, the impact of technology on the world, analysis and design using a team design project, and computer-aided design and problem solving. (2-3) Fee: \$100

1302 Introduction to Engineering Analysis

Pre-requisite(s): Pre-requisite(s): EGR 1301 with a grade of B or higher, credit or concurrent enrollment in MTH 1321, and Pre-Engineering major.

Introduction to fundamental techniques used in engineering analysis. (2-3) Fee: \$100

2V97 Special Topics or Project (Cross-listed as ELC 2V97)

1 to 3 sem. hrs.

See ELC 2V97 for course information.

2V99 Engineering Research Activities

1 to 3 sem. hrs.

Pre-requisite(s): Consent of department chair.

Special topics or projects in engineering research activities. This course provides the opportunity for recognition of supervised academic experiences that are in addition to degree requirements. Registration requires approval by the department chair and sponsoring faculty member. Cannot be used as an engineering elective to satisfy degree requirements.

3115 International Project Experience

Pre-requisite(s): EGR 3315.

Experience working with an international business and/or organization in a context outside of the United States. Students will work a minimum of 80 hours on project(s) with the goal of gaining experience working in another culture and/or language and experiencing how the difference in available resources affects the engineering design process.

3302 Technologies for Developing Countries

Pre-requisite(s): Consent of instructor.

Survey of the technologies that impact the socio-economic group known as the bottom of the pyramid. The course will focus on two broad classes of technologies, water and energy, including the application of renewable energy sources such as solar, wind, and hydro power in the developing world. Water well drilling, water pumping and filtration, and other topics regarding water access will be covered. Economic decision-making techniques based on present worth, will be explored. Fee \$100.

3305 Social and Ethical Issues in Engineering

Pre-requisite(s): B or better in EGR 1302.

Study of the relationship between engineering, technology, and society. Topics include philosophical perspectives on engineering and technology, technological values, impact of technological change, social and ethical responsibilities of engineers, and public technology policy. Christian responses to these issues will be explored. (3-0)

3315 Ethics of International Service

Pre-requisite(s): Consent of instructor.

Study of ethical considerations for professionals working in developing countries, especially those associated with the implementation of technology-oriented or enterprise-oriented development interventions. Topics include the nature and causes of poverty, international development, issues of justice, the influence of culture, the importance of community, humanitarian engineering, microfinance and entrepreneurial solutions to poverty, and preparing for a career in international service. Current theories of development from secular and Christian viewpoints will be explored. Fee: \$50

3380 Engineering Design I

Pre-requisite(s): ELC 2320 or ELC 2330, and either ELC 2337 or ME 2321.

Introduction to the engineering design process via team-based projects encompassing the design, construction and testing of an engineering device or system. Projects will emphasize oral, written, and graphical engineering communication skills and topics related to engineering professionalism. (2-3) Fee: \$150

3V95 Internship Experience

1 to 3 sem. hrs.

Pre-requisite(s): Instructor approval required.

Summer or semester-long full-time employment in an internship or co-op experience in a departmentally arranged and/or approved engineering-related position, with a report presentation after the employment period.

4301 Global Business: Economics and Communication

Pre-requisite(s): Junior standing in the School of Engineering and Computer Science.

This is the first course in a two-course sequence that will prepare engineering students to work effectively at the interface between business and engineering in a global economy. This course will focus on engineering economics, written communication, and oral communication for engineers and computer scientists, addressing communication to both technical and non-technical audiences.

4375 Elements of Nuclear Engineering

Pre-requisite(s): PHY 1420 and MTH 1322.

Survey of nuclear engineering concepts and applications. Nuclear reactions; radioactivity; radiation interaction with matter; reactor physics; risk and dose assessment; applications in medicine, industry, agriculture, and research. (3-0)

4376 Radiation Dosimetry in Nuclear Health Physics

Pre-requisite(s): PHY 1408 and 1409 or PHY 1420 and 1430.

An introduction to types of radiation relevant to nuclear, medical, scientific, and engineering applications; interaction of radiation with materials; radiation detection mechanisms and detectors; radiation dosimetry; biological effects of ionizing radiation, and medical uses of radiation.

4390 Engineering Design II

Pre-requisite(s): EGR 3380, final Fall or Spring semester before graduation.

A capstone design course for emphasizing the decision-making process that must be used by a practicing engineer to apply the basic sciences in order to convert resources optimally to meet stated objectives. Oral and written reports are required. (2-3) Fee: \$150

4396 Special Topics in Engineering

Pre-requisite(s): Consent of department chair.

Study of advanced topics in engineering. This course may be repeated once under a different topic.

4V97 Special Projects in Engineering**1 to 6 sem. hrs.**

Pre-requisite(s): Consent of department chair.

Advanced topics and/or special project activities in engineering. Fee: \$50

Engineering & Computer Science (ECS)**1101 ECS Leadership Development Seminar**

Pre-requisite(s): For engineering and computer science students only.

Provides insights into a student's present leadership strength and development needs. Prepares students for leadership positions, focusing on topics such as a philosophy of leadership, the role of power and authority in leadership, ethics, and goal setting for leadership development.

1V10 Renaissance Scholar: Technology and the Arts**1 to 3 sem. hrs.**

Pre-requisite(s): Consent of instructor.

A Renaissance Scholar is someone who is conversant across the entire range of human knowledge, from science to philosophy and technology to literature. Through the ages, people have strived to find meaning in their lives, to understand the world around them, and to use their creativity and ingenuity to improve both. Baylor's summer Renaissance Scholar program starts students on the path toward joining the ranks of the great scholars of the past. Issues of both historical and contemporary interest are considered from the perspectives of science, technology, literature, philosophy, theology, and even contemporary film.

Students complement readings in the great texts of the world with the design, development, and implementation of two ancient engineering projects. Emphasis is placed on the theory and practical application of scientific and engineering concepts such as the harnessing of energy and the mythical stories that have inspired such activity, the desire for exploration, and the quest for knowledge ranging from ancient tales of self-discovery to the modern exploration of the cosmos.

1V90 Special Topics in Freshman Engineering and Computer Science**1 to 4 sem. hrs.**

Introductory topics in engineering or computer science. The course may be repeated when topics vary.

3301 Peer Leadership

The class equips students to serve as peer leaders to new students in their first semester at Baylor.

English (ENG)**Language (ENG)****1300 English as a Second Language: Comprehension**

Practice in listening and comprehension, pronunciation, and conversation skills for both academic and social competency. Required attendance in language laboratory. This course does not satisfy the English requirements for any degree program.

1301 English as a Second Language: Composition Skills

Review and instruction in English grammar, usage, and vocabulary development, with attention to composition and reading skills, for non-native speakers of English. This course does not satisfy the English requirements for any degree program. Placement in this course is determined by language and writing tests given when the student enrolls in the University.

3301 English Words (Cross-listed as LING 3311)

Pre-requisite(s): Upper-level standing or consent of instructor.

History and structure of the English lexicon, including the semantics, word-formation processes, and pronunciation of both native English and borrowed words.

3302 Modern English Grammar (Cross-listed as LING 3312)

Pre-requisite(s): Upper-level standing.

Study of college-level grammar, with emphasis on syntax, morphology, and usage.

3305 Language in Society (Cross-listed as LING 3315)

See LING 3315 for course information.

3310 Introduction to Linguistics (Cross-listed as ANT 3310 and LING 3310)

Pre-requisite(s): Upper-level standing or consent of instructor.

Matter and methods of modern linguistics, including the nature of language and linguistics, phonology, morphology and grammar, and historical/comparative linguistics.

4302 Old English Language (Cross-listed as LING 4312)

Pre-requisite(s): ENG 2301 and upper-level standing.

Old English language and an introduction to Anglo-Saxon history and culture. Selections from Old English poetry and prose (Biblical translations, Anglo-Saxon Chronicle, Alfredian translations, homilies) will be read in the original.

4304 History of the English Language (Cross-listed as LING 4314)

Pre-requisite(s): ENG 2301 and upper-level standing.

Origin, growth, and structure of the English language.

4319 American English Dialects (Cross-listed as LING 4319)

See LING 4319 for course information.

Literary Studies (ENG)

2301 British Literature

Pre-requisite(s): ENG 1302 and 1304; or equivalent.

A study of the literature of Great Britain, emphasizing the works of major writers such as Chaucer, Shakespeare, Milton, the Romantic poets, the Victorian poets, and the major novelists.

2304 American Literature

Pre-requisite(s): ENG 1302 and 1304; or equivalent.

A study of the literature of the United States, emphasizing the work of major writers such as Hawthorne, Melville, Poe, Dickinson, Whitman, Twain, Hemingway, Faulkner, and Morrison.

2306 World Literature

Pre-requisite(s): ENG 1302 or FAS 1302, and ENG 1304; or equivalent.

A study of the literature of countries other than Britain and the United States, emphasizing the work of major writers such as Homer, Sophocles, Virgil, Dante, Boccaccio, Cervantes, Goethe, Flaubert, Dostoevsky, and Tolstoy, and giving attention to selected classical works of non-Western literature.

3311 English Literature through the Sixteenth Century

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Old English (Anglo-Saxon), Middle English, and English poetry, prose, and drama to 1600, studied in relation to the cultural and social character of the period.

3331 English Literature of the Seventeenth and Eighteenth Centuries

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

English poetry, prose, and drama from 1600 to 1800, studied in relation to the cultural and social character of the period.

3351 British Literature from the Nineteenth Century to the Present

Pre-requisite(s): ENG 2301 and either ENG 2304 or 2306; and upper-level standing.

British poetry, prose, and drama from 1800 to the present, studied in relation to the cultural and social character of the period.

3370 Religion and Literature (Cross-listed as REL 3370)

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Topics exploring the relationship between religion and literature, and between religious ideas and the literary expression of those ideas.

3371 History of Critical Theory

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Critical writing about literature from Aristotle through the New Criticism.

3372 The Oxford Christians

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Works of C.S. Lewis, J.R.R. Tolkien, and other members of the group of writers called the Oxford Christians.

3374 Short Fiction: A Reading Course

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Development and forms of the short story.

3375 Post-Colonial Literature

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Twentieth-century literature from India, Africa, the Caribbean, and other emerging post-colonial traditions.

3376 African American Literature

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

A study of works of African American writers. Selections may include slave narratives, poetry, plays, short stories, and novels from the colonial period to the present.

3377 The Art of Film

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

A study of film, with an emphasis on film's literary qualities and on various forms of cinematic theory and criticism.

3378 Topics in Literature

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Topics not included in ENG 4374 seminars, especially topics such as detective fiction and science fiction. Topic announced for each semester or session. May be repeated once for a total of six credit hours with content change.

3380 American Literature through Whitman

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

American poetry and prose to 1870, studied in relation to the cultural and social character of the period.

3390 American Literature from Whitman

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

American poetry, prose, and drama from 1870 to the present, studied in relation to the cultural and social character of the period.

3393 Literature of the American West and Southwest

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing or consent of instructor.

The works of writers of the American West and Southwest.

4310 Old and Early Middle English Literature

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Old English and Early Middle English poetry and prose in translation from the seventh through the thirteenth century read in the context of the historical, social, religious, political, art historical, and philosophical trends of the periods.

4313 Later Middle English Literature Excluding Chaucer

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Middle English poetry, prose, and drama primarily in the original text from the fourteenth and fifteenth centuries read in the context of the historical, social, religious, political, art historical, and philosophical trends of the periods.

4314 Chaucer

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Chaucer's major and minor works and their cultural milieu; read in Middle English and in translation. One of his continental sources will also be read.

4316 Special Topics in Medieval Literature

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Specialized topics in medieval studies, such as paleography, the medieval mystics, and Chaucer and the Italian tradition. Topic announced for each semester or session.

4320 English Drama to 1642

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Development of English drama from its medieval origins to the closing of the theaters in 1642, excluding Shakespeare.

4322 Sixteenth-Century Poetry and Prose

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

English poetry and prose of the Tudor and Elizabethan periods, with emphasis on the development of the sonnet and Petrarchan conventions.

4324 Shakespeare: Selected Plays

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Representative comedies, histories, tragedies, and problem plays.

4330 Early Seventeenth-Century Poetry and Prose

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

English poetry and prose of the early Stuart period, the Interregnum, and the early Restoration, with emphasis on the metaphysical and cavalier poets.

4332 Milton

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Milton's poetry with emphasis on Paradise Lost; examination of selected prose; consideration of biographical and historical materials related to the poetry.

4340 English Poetry and Prose from 1660 to 1745

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Development of poetry and prose during the Augustan Age, with emphasis on the satire of Dryden, Swift, Gay, Pope, and Fielding.

4342 English Poetry and Prose from 1745 to 1798

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

The development of poetry and prose in the later eighteenth century, with emphasis on sensibility in the works of Gray, Johnson, Boswell, and Sterne.

4344 English Drama from 1660 to 1800

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Development of English drama from the reopening of the theaters after the Interregnum through the eighteenth century.

4347 Eighteenth-Century British Novel

Pre-requisite(s): ENG 2301, and either 2304 or 2306; and upper-level standing.

Development of fictional narrative form in eighteenth-century Britain, with emphasis on Defoe, Richardson, Fielding, Smollett, Sterne, and Burney.

4354 Romantic Poetry

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

British poets of the early nineteenth century, with emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

4355 Romantic Prose

Pre-requisite(s): ENG 2301 and either ENG 2304 or 2306; and upper level standing.

British and European novelists, story writers, and prose writers of the late 18th and early 19th centuries, with emphasis on Jane Austen, Ann Radcliffe, Maria Edgeworth, Sir Walter Scott, and Johann von Goethe.

4360 Victorian Prose

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Development of English prose in the nineteenth century, with emphasis on Macaulay, Carlyle, Newman, Ruskin, Arnold, Eliot, Pater, and Wilde.

4362 Victorian Poetry

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

British poets of the later nineteenth century, with emphasis on Browning, Tennyson, Arnold, and Hopkins.

4364 The Brownings

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

The Brownings' major poems, with emphasis on Men and Women, The Ring and the Book, Aurora Leigh, and Sonnets from the Portuguese; introduction to the Armstrong Browning Library collection.

4368 Nineteenth-Century British Novel

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Development of fictional narrative form in nineteenth-century Britain, with emphasis on Austen, Scott, the Brontes, Thackeray, Dickens, Eliot, and Hardy.

4369 Modern British Novel

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

British novelists from 1900 to 1945, with emphasis on Woolf, Joyce, and Lawrence.

4370 Women Writers

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Major women writers and their representative works. Readings may emphasize British, American, or international writers, a genre, or a theme.

4371 Modern British Poetry

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

British poets from 1900 to 1945, with emphasis upon Eliot, Yeats, Lawrence, Thomas, and Auden.

4372 Modern British and Continental Drama

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Development of modern European Drama and Theater from 1880 to the present.

4374 Special Topics in Literature

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Topics not ordinarily included in period, genre, or author courses. Topic announced for each semester or session. May be repeated once for a total of six credit hours with content change.

4378 Contemporary Novel

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Novelists from the twenty-first century either writing in English or studied in translation.

4379 Great Books of the Western World

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Various topics and texts of the Western World. Periods, themes, genres, or problems may be the organizing element, e.g., Greek Tragedy, Roman Elegy, the Medieval Mind, the Enlightenment, French Post-war Intellectual Thought.

4380 American Renaissance

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Works of American writers of New England in the mid nineteenth century.

4381 Early American Literature

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing; or consent of instructor.

Prose and poetry of American writers from 1620 to 1820.

4382 Major Authors

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

A study of the works of a particular writer. Topics announced for each semester or session. May be repeated once under different topic.

4383 American Realism and Naturalism

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

American writers from 1860 to 1900.

4384 Contemporary Critical Theory

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Contemporary approaches to the critical interpretation of literature, emphasizing primary texts, e.g., psychoanalytic, feminist, structuralist, deconstructive, new historical, reader-response, formalist, semiotic, neo-Aristotelian.

4385 Contemporary Poetry

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

British and American poets of the twenty-first century with special emphasis on recent developments in poetic form and method.

4386 Postmodern American Novel

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

American novelists from 1945 to 2000.

4387 Modern American Novel

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

American novelists from 1900 to 1945, with emphasis on Wharton, James, Cather, Hemingway, Faulkner, Fitzgerald, and Hurston.

4388 Christian Literary Classics (Cross-listed as REL 4388)

See REL 4388 for course information.

4389 Postmodern American Poetry

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

American poets from 1945 to 2000.

4390 Literature of the South

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Works of writers of the American South, with emphasis on Poe, Faulkner, O'Connor, and Welty.

4391 Modern American Poetry

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

American poets from 1900 to 1945, with special emphasis upon Frost, Pound, Cummings, Stevens, Williams, and Bishop.

4394 American Drama

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing.

Development of American drama, with emphasis on O'Neill, Williams, Miller, Albee, and Hellman.

4397 Internship for Literature Majors

Pre-requisite(s): ENG 3300 or 3303 or 4309.

An internship to provide literature majors supervised experience in a business or professional setting. Elective credit only. Student may register for course in last semester of senior year only.

43C1 Aesthetic Perception and Experience (Cross-listed as ART 43C1 and MUS 43C1)

Pre-requisite(s): Senior standing; major in English, Art or Music; or consent of instructor.

Aesthetic Perception and Experience (ART/ENG/MUS 43C1) presents specific analytical approaches to visual art, literature, and music, leading students to learn analytical skills in those three areas. The professors then lead students to arrive at, then apply, general principles for aesthetic experience for all artistic fields.

4V18 Independent Study in Literature **1 to 3 sem. hrs.**

Pre-requisite(s): ENG 2301 and either 2304 or 2306; and upper-level standing and consent of instructor.

Supervised individual reading and research. Repeat once with change of topic for maximum of six hours.

4V98 Maastricht Topics **1 to 4 sem. hrs.**

Pre-requisite(s): ENG 2310

Special topics in literature developed in conjunction with Baylor-in-Maastricht program.

Writing Programs (ENG)**0300 Developmental English**

Intensive instruction in English writing skills, grammar, usage, and reading comprehension, with individualized attention to problem areas. This course is a Pre-requisite(s) for ENG 1302 for all students whose diagnostic test indicates the inability to do satisfactory work in ENG 1302. Credit for this course does not apply toward any degree program.

1302 Thinking and Writing

Pre-requisite(s): ENG 0300 for students whose diagnostic test indicates inability to do satisfactory work in ENG 1302.

A course designed to help students better understand English grammar, rhetoric, and usage for correct and effective writing. The course focuses on the several steps in organizing and writing the expository essay for a variety of purposes. Essay assignments develop students' capacity for logical thought and expression.

1304 Thinking, Writing, and Research

Pre-requisite(s): ENG 1302 or FAS 1302 or advanced placement.

A course designed to teach students to gather and evaluate information from a variety of sources and to incorporate ideas from these sources into the writing of a research paper. In addition, the course explores the techniques of persuasive and critical writing.

3300 Technical Writing

Pre-requisite(s): ENG 1302 or FAS 1302 or advanced placement; and either upper-level standing or consent of instructor.

Emphasis on theories, principles, and practices of effective technical writing and writing in the sciences. Students will compose technical genres such as reports, proposals, memos, and documentation with an emphasis on usability, accessibility, data analysis, information design, ethics, writing style, and collaboration.

3303 Persuasive and Argumentative Writing

Pre-requisite(s): Upper-level standing or consent of instructor.

An advanced writing workshop that focuses on the analysis and production of texts written for specific rhetorical situations and discourse communities. Emphasis on genre, persuasion, and rhetoric. Practice in various types of expository, narrative, persuasive, and academic writing.

3304 Creative Writing: Poetry

Pre-requisite(s): Upper-level standing or consent of instructor.

Workshop course with emphasis on imaginative writing of poetry. May be repeated once with a different topic of study.

3306 Creative Writing: Prose

Pre-requisite(s): Upper-level standing or consent of instructor.

Workshop course in the techniques of imaginative writing of prose. May be repeated once with a different topic of study.

3307 Screenplay and Scriptwriting

Pre-requisite(s): Upper-level standing or consent of instructor.

Screenwriting and scriptwriting are designed for the novice writer with an interest in cinema or theater. The class will include discussions of treatment, pitch, agents, and feature the writing of an actual screenplay.

3309 Creative Nonfiction

Pre-requisite(s): Upper-level standing or consent of instructor.

Focuses on popular nonfiction addressed to a wider audience. Students will practice creative nonfiction research methods and compose genres such as travel writing, memoir, autobiography, biography, profiles, and history.

3313 Literacy Studies

Pre-requisite(s): Upper-level standing or consent of instructor.

Examines histories, theories, and practices of literacy in relation to questions of ideology, education, schooling, identity, social class, technology, and/or composition.

3316 Women's Writing and Rhetoric

Examines the ways women use language to persuade in both public and private spheres in both historical and contemporary periods, with special attention to both traditional rhetorical genres (speeches, letters, sermons, editorials) and nontraditional texts (quilts, recipe books, blogs).

3317 Rhetoric of Race

Pre-requisite(s): Upper-level standing or consent of instructor.

Exploration of rhetoric, writing, literacy, and culture in relation to race and other related issues, such as class, identity, gender, politics, and culture.

3318 Professional and Workplace Writing

Study and practice of professional writing in workplace contexts, with attention to audience adaptation, project management, collaboration, work with clients, professionalization, and style. Students will compose a range of workplace writings (i.e., letters, proposals, reports, web documents, design documents) and create application materials for career positions or graduate study. Culminates in a digital portfolio. Required of all PWR majors.

3319 Language and Culture (cross-listed as LING 3319)

See LING 3319 for course description.

3326 Studies in Public and Civic Writing

Pre-requisite(s): Upper-level standing or consent of instructor.

Examines the role of writing and rhetoric in shaping, mobilizing, and changing the public's thinking on contemporary controversial issues. Focus on both historical and contemporary debates.

3385 Special Topics in Writing Workshop

Pre-requisite(s): Upper-level standing or consent of instructor.

Writing workshop centered on a particular topic. Students practice writing genres that are related to the course theme. Topics may include food writing, travel writing, the teaching of writing, or other similar topics. Repeatable for a maximum of 6 credits with permission of department.

4321 New Media Writing and Rhetoric

Pre-requisite(s): Upper-level standing or consent of instructor.

A workshop course designed to develop skills in composing in multiple modes and media for different audiences, purposes, and situations. Students will analyze and compose a range of multimodal texts that integrate words, images, and sounds, such as digital stories, websites, video essays, audio compositions, scrapbooks, and posters.

4323 Editing and Publishing

Pre-requisite(s): Upper-level standing or consent of instructor.

Introduction to rhetorical concept of style and to the practice of editing texts intended for publication. Extensive editing practice on a range of print and online texts from professional, business, academic, and non-profit contexts. Stresses grammar, style, document design, and project management.

4348 Religious Rhetoric and Spiritual Writing

Pre-requisite(s): Upper-level standing or consent of instructor.

A writing workshop that provides experience writing from and critically analyzing spiritual perspectives. Students compose in a range of genres (creeds, spiritual autobiographies, and analyses of religious texts) in order to explore spiritual questions, religious experiences, and rhetorical concerns.

4395 Special Topics in Creative Writing

Pre-requisite(s): Upper-level standing or consent of instructor.

Topics in creative writing not covered in Creative Writing courses. Topic announced for each semester or session. Repeatable for a maximum of 6 credits.

4301 Advanced Creative Writing: Prose

Pre-requisite(s): ENG 3306 or consent of instructor.

Workshop course for advanced writers of creative prose emphasizing discussion of student work. Course may be repeated once with a different topic.

4305 Advanced Creative Writing: Poetry

Pre-requisite(s): ENG 3304 or consent of instructor.

Workshop in the writing of poetry at an advanced level. May be repeated once with a different topic of study.

4309 Research in Writing and Rhetoric

Pre-requisite(s): Upper-level standing or consent of instructor.

Students will learn and apply key concepts, theories, and methods used to produce scholarship in the field of rhetoric and writing. Students will complete a major research project using writing studies research methodologies, such as empirical, archival, case-study, ethnographic, digital, qualitative, quantitative, and text and discourse analysis.

4311 Writing for Social Change

Pre-requisite(s): ENG 3309 or 4375 or consent of instructor.

Emphasizes practical skills necessary for effective civic, public, or advocacy writing. Students use writing and related media to explore, analyze and advocate on issues of public concern with opportunities for students to create texts and campaigns.

4318 Writing for the Workplace

Pre-requisite(s): ENG 3300 or BUS 3315 or consent of instructor.

Advanced study of workplace skills, including editing, desktop publishing, document design and testing, and project management. Designed for students who will work in writing-intensive professions.

4375 Special Topics Lecture in Writing and Rhetoric

Pre-requisite(s): Upper-level standing or consent of instructor.

Close study of a topic in writing, rhetoric, literacy, or a related field. Topic announced each semester. Repeatable for a maximum of 6 credits with permission of department.

4377 Writing Internship

Pre-requisite(s): ENG 3318 or concurrent enrollment, or consent of instructor.

An internship to provide students in the WR program supervised writing experience in a business or professional setting. Required of all WR majors.

4V19 Independent Study in Writing**1 to 3 sem. hrs.**

Pre-requisite(s): Upper-level standing and consent of instructor.

Supervised individual writing. Repeat once with change of topic for maximum of six hours.

Entrepreneurship (ENT)**3301 Entrepreneurship: Living and Learning**

Pre-requisite(s): Open to residents of the Entrepreneurship Living & Learning Center or consent of department.

Exploration of entrepreneurship as a career and the journey to become an entrepreneur. Topics include fundamentals of entrepreneurship and developing an entrepreneurial mindset. Experiential learning with creativity and imagination in solving entrepreneurial problems. Counts as Fine Arts credit for BBA students.

3315 Starting and Managing a Business

Pre-requisite(s): Sophomore or upper-level standing; not open to Entrepreneurship & Corporate Innovation majors.

An introductory course for students other than entrepreneurship majors. The course, which is designed around the business plan, examines how to formulate business ideas, select a location, select a legal form of organization, locate financing sources, assess the market, develop a human resource management system, and establish budgets for control.

3320 Entrepreneurial Process

Pre-requisite(s): only open to BBA students with Upper-level standing.

An introductory course in entrepreneurship designed to explore the development of innovative thinking and venture exploration which would ultimately lead to a new venture. Topics covered include: Developing an innovative perspective as well as identifying and testing venture concepts. Topics are introduced through the use of creative exercises, team projects, concept identification journals, discussion of entrepreneurship cases, and a business venture startup game.

3350 International Entrepreneurship (Cross-listed as INB 3350)

Pre-requisite(s): Sophomore standing and consent of instructor.

Examines entrepreneurship in other countries by focusing on the unique opportunities and problems associated with the particular country being studied. Comparisons are made between the host country and the United States. General issues related to doing business across national boundaries are included. This course is taught only outside the United States.

4310 New Venture Finance: The Entrepreneur's Perspective

Pre-requisite(s): ENT 3320 or consent of instructor; only open to BBA students.

Successful entrepreneurs must effectively manage scarce resources in an increasingly complex and global world. This course is designed to provide students with a wide range of financial skills to more effectively manage their resources. Specific issues critical to emerging businesses such as financial forecasting, effective financial management, sources of financing, bootstrapping, and exit planning will be examined. A student may not get credit for both ENT 4310 and FIN 4310.

4320 Managing the Family Business

Pre-requisite(s): BBA students must be admitted to the Business School in order to take this course.

Explores the unique personal and interpersonal issues, as well as the business issues, associated with the family-owned and managed firm. Topics evaluated in the course include the competitive strengths and weaknesses of a family firm; the dynamics of family interactions and the family business culture; conflict resolutions; estate planning; and planning for succession.

4321 Accelerated Ventures: Launch

Pre-requisite(s): Upper level standing; BBA students must be admitted to the Business School in order to take this course.

Accelerated Ventures (AV) is a two-semester program designed to provide an innovative educational experience for students. During the first semester, students enrolled in ENT 4321 create real companies, raise funds, launch products and services, and generate sales. The second component of AV (ENT 4322) teaches students how to grow and sustain that company.

4322 Accelerated Ventures Capstone

Pre-requisite(s): ENT 4310; only open to Entrepreneurship majors.

Accelerated Ventures Capstone (AVC) provides an integrative and innovative educational experience with emphasis on experiential learning. Focus is on start-up and new venture growth activities. Teaches students to use all functional areas of business to optimize options to expand firm revenue, finance firm growth and insure long-term sustainable value creation.

4325 Entrepreneurial Leadership

Pre-requisite(s): ENT 3315; upper-level standing; not open to Entrepreneurship & Corporate Innovation majors

This class is a practicum in which the student will prepare a written business plan for an actual venture, business or nonprofit, which he/she plans to implement in the future. It will be very helpful if the student enters the course with the idea for this venture. Typed drafts of the plan and oral presentations of various sections will be submitted and presented during the course. Individuals from the business and/or nonprofit sectors will be involved in providing constructive criticism throughout the process.

4330 Corporate Entrepreneurship: Initiating and Sustaining Innovation

Pre-requisite(s): Upper-level standing; BBA students must be admitted to the Business School in order to take this course.

The initial modules of the course explore the nature of innovation--its drivers, patterns and impacts on society and organizations of all sizes and missions. A core aim is delivering tools for recognizing breakthrough-level innovation opportunities and then practicing their use by inventing needed solutions. Subsequent modules focus on the use of these tools and processes in a larger organizational context where selecting the best innovation target is critical, and where stagnation and inertia tend to pull the firm away from the leading edge over time. The goals of the course include demonstrated skills needed for creating and implementing sustained, innovation-driven growth in corporate settings.

4340 Technology Entrepreneurship (Cross-listed as MGT 4340)

Pre-requisite(s): Senior standing.

Business based on patentable technologies display different business models and characteristics from those of non-technical, mainstream businesses. Understanding these distinctions is critical to technology commercialization. Technology Entrepreneurship examines the entire technology commercialization process, from concept to market. It is intended to provide students in business, engineering, and the sciences with the knowledge needed to participate effectively in the processes required for the successful introduction of new technology products in the marketplace.

4351 Entrepreneurship in the European Union

Pre-requisite(s): Consent of instructor.

A summer study abroad program that covers a broad range of topics that critically affect startup concerns of businesses in the European Union. Primary emphasis is placed on marketing concerns, economic analysis, and business plan preparation for business. Other issues to be investigated include identifying venture opportunities, concept development, market analysis, pricing, budgeting, legal forms of organization, management of the team, and business valuation and dilution. The students will apply this knowledge by preparing a business plan for a business venture -- based on a well-defined concept of the product or service that could develop within their discipline -- and by presenting their final plans to a panel of private equity holders, venture capitalist, bankers, and other entrepreneurship experts. The course is only offered as part of a Baylor study abroad program.

4352 Technology Entrepreneurship in Asia

Pre-requisite(s): Consent of instructor.

The Shanghai Summer Program includes this version of Technology Entrepreneurship wherein the hands-on projects undertaken for companies are within Chinese entities, and the cross-functional teams are also cross-cultural (American and Chinese). The course is structured around the key elements of commercializing technology as in ENT 4340, the technology entrepreneurship class offered on the Baylor campus. After learning the core elements, students explore the differences of how they are applied to the Asian (especially Chinese) context, and the in-class learning is coupled with the opportunity to visit companies in China that are practicing these same elements. This course is designed to prepare the student for technology-based innovation in the global context.

4353 Social Entrepreneurship and Economic Development

Pre-requisite(s): Junior standing; BBA students must be admitted to the Business School in order to take this course.

Is capitalism good for the poor? This course examines the morality of capitalism, the role of institutions in perpetuating or eliminating absolute poverty, and the contextual challenges of entrepreneurship. Recognizing the socio-cultural, political, economic, and technological challenges of doing business in the third world, we use organizational theory to design for-profit ventures that use appropriate technologies to create sustainable solutions to social problems. Course projects are intended to produce organizations that will be partially owned and operated by the members of the communities that benefit from their goods and services.

4354 Entrepreneurship in Latin America

Pre-requisite(s): Consent of the instructor.

A study abroad course that helps students understand business in Latin America through first-hand experience. Students will study the social, cultural, historical, economic, and political issues that impact entrepreneurship and small businesses in the Latin American country visited and gain insights into the general environment in which they operate. They will learn from visits to a variety of business enterprises, cultural sites, and educational institutions, in addition to exploring geographic places of interest. Insights gained will allow enrolled students to grasp the dynamics of participation in the local economy and society of the specific country visited.

4360 Franchising: Franchisee and Franchisor Perspectives

Pre-requisite(s): Upper-level standing.

This course is designed to introduce the student to the business concept of franchising from the perspectives of both the franchisee and the franchisor. The student will learn to evaluate a franchising opportunity from the point of view of the franchisee by completing a feasibility study of a currently available franchise and the potential for franchising a business idea by completing a business plan. Managing the franchise will be covered as well.

4380 Social Entrepreneurship: Microfinance and Economic Development in Africa

Pre-requisite(s): Consent of instructor.

This course is a summer study abroad program. Students enrolled in the class will visit one of the following three African countries: Kenya, Rwanda, and Ghana. The content of the course examines the use of entrepreneurial skills to craft innovative responses to social problems in Africa. In particular, the ability of microlending practices to stimulate economic activity and alleviate poverty will be studied.

4395 Entrepreneurship Internship

Pre-requisite(s): Consent of instructor; not open to pre-business students.

Supervised work by a manager in a firm involved in entrepreneurship. Application and requirements for the entrepreneurship internship are available from the chair of the management and entrepreneurship department.

4398 Special Studies in Entrepreneurship

Consent of instructor; not open to pre-business students.

4V50 International Technology Entrepreneurship Summer Study Abroad

1 to 6 sem. hrs.

Pre-requisite(s): Consent of instructor.

A study abroad course with emphasis on topics that affect technology-based companies and startup businesses. Concepts covered are identifying venture opportunities, concept development, market analysis, pricing, budgeting, prototype development, and business plan preparation for technology-based businesses. Also included are a formal presentation to a group of European venture capitalists and lectures by European business leaders. This is a cooperative program between the School of Engineering and Computer Science and the Hankamer School of Business.

Environmental Science (ENV)

1101 An Introduction to Environmental Analysis (Lab)

Pre-requisite(s): Credit or concurrent enrollment in ENV 1301.

Methods of collection, analysis, and interpretation of environmental data as used in the social, behavioral, physical and biological disciplines. Fee: \$85

1103 Wildlife Ecology Laboratory Exercises

Pre-requisite(s): ENV 1303; or concurrent enrollment in ENV 1303.

Laboratory experience in basic ecological methodologies, including interpreting elementary graphic and statistical information, gathering population and habitat data, and understanding how science might be used to solve practical environmental problems. Fee: \$80

1301 Exploring Environmental Issues

A survey of the fundamental physical, biological, and social forces affecting the solution of environmental problems. Principles of environmental history, political science, economics, biology, geology, physics, anthropology, and related disciplines.

1303 Wildlife Ecology

Introduction to wildlife identification, populations, life histories, behavior and habitats and the role of wildlife in ecological communities and ecosystems.

1305 Freshman Environmental Seminar

Pre-requisite(s): Freshman or sophomore standing.

Introduces first-year students to significant topics in environmental studies. Emphasizes critical inquiry and thinking, research, scholarly communication, and problem-solving. Does not apply on the laboratory science requirement.

1309 Introduction to Environmental Sustainability

This course will introduce students to the major tenets of sustainability and will explore the real-world application of sustainable practices on a local, national, and global scale. Topics will demonstrate interrelationships of various tools and approaches for sustainable development. Mastery of the materials from this course will prepare students to make positive changes on campus and beyond. Fee: \$50

2307 Ecology for a Changing World

Pre-requisite(s): BIO 1405, 1305 or 1401; and credit or concurrent enrollment in ENV 1301 or 1303.

The principles of ecology, emphasizing the effects of human activities on individuals, populations, communities and large-scale ecological systems.

2376 Environment and Society

Introduction to ethical, historical, and social science analysis of environmental issues, such as climate change, loss of biodiversity, water pollution, and urbanization. Emphasis on case histories and human dimensions of environmental problem solving.

3100 Environmental Health Seminar

Pre-requisite(s): ENV 3314; or consent of instructor.

Seminars by faculty and visiting speakers on topics in environmental health science. May be repeated once, with different content. Major paper required.

3103 Seminar on Environmental Topics

Seminars by faculty and visiting speakers on various topics in environmental studies. May be repeated once, with different content.

3106 Conserving Biodiversity (Lab)

Pre-requisite(s): ENV 3306 or concurrent enrollment in ENV 3306.

Laboratory and field sampling methods for determining species diversity, minimum viable population size, and impacts of human disturbance on species survival. Fee: \$150

3108 Marine Environments Laboratory

Pre-requisite(s): Credit or concurrent enrollment in ENV 3308.

Study of specimens and field surveys of major taxa of marine organisms; visits to typical marine and estuarine habitats. Overnight field trips required. Fee: \$150

3133 Analytical Analysis of Water Quality

Pre-requisite(s): Upper-level standing.

This course provides instruction relating to the delineation of watersheds by the use of topographical maps and aerial photographs, and the use of scientific methodology to estimate quantitative values for contaminant levels. Fee: \$100

3137 Wildlife Management Methods

Pre-requisite(s): ENV 3337 or concurrent enrollment.

Laboratory techniques used in wildlife management, abundance estimates, management of habitats, and resolving current issues in wildlife management. Studies of game, non-game, endangered, and exotic species. Fee: \$130

3187 Environmental Chemistry Laboratory

Pre-requisite(s): Credit or concurrent enrollment in ENV 3387; or consent of instructor.

Introduction to experimental, field sampling, and analytical methods in environmental chemistry. Emphasis on field detection of both organic and inorganic compounds in soil, water, and air via spectrometric, chromatographic, and fluorometric instrumentation. Fee: \$120

3188 Laboratory Methods in Environmental Assessment and Monitoring

Co-requisite(s): ENV 3187.

Pre-requisite(s): ENV 1301, 1101, 2307, and 3210.

Lab expands upon concepts learned in ENV 3210 by providing techniques that determine biological responses to stressors. Fee: \$120

3210 Field Techniques for Environmental Science

Pre-requisite(s): ENV 1301 and ENV 1101.

Environmental sampling methods and sample processing; data collection and analysis, and biological indexing. Course provides hands-on experience in performing Texas Commission for Environmental Quality sampling techniques for air, water, sediments, and biota, with emphasis on aquatic systems. Fee: \$200

3216 Air Quality and Monitoring Laboratory

Pre-requisite(s): CHE 1300, 1301 or 1405; and credit or concurrent enrollment in ENV 3316.

An introduction to laboratory, field sampling, and data analysis techniques used in air quality monitoring. Topics will include measurement and analysis of pollutants such as ozone, particulate matter, and sulfur dioxide, and basic modeling. Fee: \$95

3300 The Environment and Political Processes (Cross-listed as PSC 3300)

See PSC 3300 for course information.

3301 Team Research in Environmental Studies

Pre-requisite(s): Sophomore or junior standing; or consent of the instructor.

Students will participate in a team research project under the supervision of a Baylor faculty member. Students will be expected to attend one hour of lecture and to complete a minimum of six hours of field or laboratory work a week. May be repeated once under different topic. Fee: \$100

3303 Directed Reading in Environmental Studies

Pre-requisite(s): ENV 1301 or consent of instructor.

Critical reading in environmental studies. Student-led discussion and evaluation. May be repeated with a change of topic for a maximum total credit of six semester hours.

3306 Conserving Biodiversity

Pre-requisite(s): ENV 1301 or BIO 1306 or consent of instructor.

Introduction to causes of species and habitat loss. Application of ecological and genetic concepts to conservation and restoration of animal and plant species.

3308 Marine Environments and Biodiversity

Pre-requisite(s): Six hours of environmental studies or biology courses, or consent of instructor.

Introduction to marine life forms, ecological adaptations, habitats, and critical issues in conserving marine biodiversity.

3314 Introduction to Environmental Health (Cross-listed as BIO 3315)

Pre-requisite(s): Sophomore standing or above.

Study of environmental hazards to the health of humans and other vertebrates, including pollution, radiation, wastes, urbanization, and climate change. Topics include epidemiology, risk assessment, infectious diseases, emerging contaminants, and regulation.

3316 Introduction to Air Quality

Pre-requisite(s): CHE 1300, 1301 or 1405.

Introduction to atmospheric chemistry, and transport and deposition of air pollutants. Topics include major sources of pollution, climate change, atmospheric regulation, and impacts on human health.

3320 Environment and Human Behavior (Cross-listed as ANT 3320)

See ANT 3320 for course information.

3333 Watershed Assessment

Pre-requisite(s): ENV 1301 or consent of instructor.

An introduction to the scientific tools and methodology by which watersheds may be delineated and assessed with respect to point and non-point pollution. This course will deal primarily with surface waters.

3337 Principles of Wildlife Management

Pre-requisite(s): ENV 1303 or 2307 or consent of instructor.

Introduction to techniques used in wildlife management including population estimation, forage evaluation, and habitat mapping. Investigation of the natural history and management strategies for a variety of game, non-game, endangered, and exotic species.

3370 Managing Environmental Health and Safety

Pre-requisite(s): CHE 1405, 1300 or 1301; and ENV 3314 or consent of instructor.

Anticipation, recognition, evaluation, and control of chemical, radiological, biological, and physical hazards in the workplace and in environmental contexts.

3387 Environmental Chemistry

Pre-requisite(s): ENV 1101, 1301, and CHE 3331.

An introduction to the chemistry of soil, water, and air, and the sources, fate, and transport of environmental pollutants. Topics include applications of chemistry to remediation and waste minimization. Open to students with diverse backgrounds. Credit or concurrent enrollment in ENV 3387 is required to enroll in ENV 3187 Environmental Chemistry Laboratory.

3V90 Individual Research Problems**1 to 3 sem. hrs.**

Pre-requisite(s): Completion of a departmental application providing a description of the project and consent of instructor.

A research project conducted under the supervision of a Baylor faculty member in Environmental Science, a supporting department, or a pre-approved off-campus laboratory or field station. Three hours of laboratory or field work per week will be required during fall or spring semester, or fifty hours total during the summer, for each semester hour of credit. This course may be repeated for up to six semester hours of credit. Fee: \$100

3V93 Environmental Sustainability Internship**1 to 3 sem. hrs.**

Pre-requisite(s): Consent of a Baylor faculty sponsor; and completion of a departmental application.

Campus or community internship to develop leadership in environmental sustainability. Open to non-majors. The course may be repeated for up to three semester hours of credit. Fee: \$50

4102 Seminar on Environmental Topics

Seminars by faculty, students and visiting speakers. Each student will prepare and present one thirty to forty-five-minute seminar. May be repeated once, with different content.

4170 Fundamentals of Ecotoxicology Laboratory

Co-requisite(s): ENV 4370.

Pre-requisite(s): ENV 1301, 2307, 3210, 3187, and 3188.

Field and laboratory techniques critical to gathering information on environmental stressors and responses of organisms to them. Fee: \$120

4199 Senior Thesis I

Pre-requisite(s): Senior standing in environmental studies major.

Student selects an environmental problem for independent research project. After approval by thesis adviser, literature search is conducted and bibliography for the thesis is completed.

4287 Field and Laboratory Tests

Pre-requisite(s): CHE 1316, 3331, 3332; and/or concurrent enrollment in ENV 4387.

Field and bench tests of chemically contaminated water and soil, using portable test kits, with simple bench tests of selected remediation methods such as ion-exchange, precipitation, and membrane separations.

Fee: \$100

4299 Senior Thesis II

Pre-requisite(s): Credit or concurrent enrollment in ENV 4199.

Preparation of information and data analysis in appropriate thesis form.

4302 Team Problem Solving in Environmental Studies

Students will contribute the skills of their specializations to analyze and to suggest a solution to a current environmental problem. May be repeated once with a change of content. Fee: \$120

4304 Aquatic Chemistry

Pre-requisite(s): ENV 3387 or consent of instructor.

Concepts and issues in aquatic chemistry, including chemical equilibria of natural waters and anthropogenic impacts. Required field trips.

4306 Economic Anthropology (Cross-listed as ANT 4306)

See ANT 4306 for course information.

4307 Environmental Law (Cross-listed as PSC 4307)

Pre-requisite(s): Upper-level standing or consent of instructor.

Fundamentals of environmental protection laws in the United States, including the evolution of environmental law in the areas of case law, common law, and administrative law. Topics include air and water quality, toxic and hazardous substances, endangered species, and wetlands and coastal management issues.

4308 Air Quality Regulation

Reviews history and policy of United States, transboundary, and global air pollution and resulting environmental regulations.

4310 World Food Problems (Cross-listed as ANT 4311)

Pre-requisite(s): Upper-level standing.

A seminar approach with emphasis on the various causes of malnutrition including the ecological basis for food production, the impact of economics and politics on food production and distribution, and the consequences of malnutrition.

4313 Agricultural Ecology

Pre-requisite(s): ENV 1301, or BIO 1306, or 1401.

Application of ecological principles to sustainable agricultural management. Emphasis on Texas and the tropics. Required weekend field trips.

4315 Research Methods

Pre-requisite(s): ENV 1301, 2375, and 2376.

Research design and methods. Students produce a comprehensive research proposal in their major field(s) of study.

4318 Heavy Metals & Global Public Health

Pre-requisite(s): BIO 1305 or BIO 1405, BIO 1306 or BIO 1406, CHE 1301, and CHE 1302, and upper level standing.

Examines the impacts of natural and anthropogenic sources of metals on human health and the relationship between natural geological factors and health in humans and animals in the context of geographic significance and public health responses.

4322 Climate Anthropology (Cross-listed as ANT 4321)

See ANT 4321 for course information.

4323 The Environment and Economic Analysis (Cross-listed as AVS 4323 and ECO 4323)

Pre-requisite(s): ECO 1305 or 2306; and upper-level standing.

Economic analysis in description, analysis, and policy formulation of environmental problems such as natural resource development, ecology, energy needs, noise, water, and air pollution. Economic tools used will include social welfare analysis, externalities, and benefit cost analysis.

4325 Human Health Risk Assessment

Pre-requisite(s): ENV 3314 or concurrent enrollment in ENV 3314; or consent of instructor.

Concepts, data sources, and methodologies used in the field of human risk assessment, including environmental hazard identification, dose-response assessment, exposure assessment, risk characterization, and risk communication. Required project utilizing professional risk assessment software. Fee: \$60

4327 Human Catastrophe and Cultural Response (Cross-listed as ANT 4327)

See ANT 4327 for course information.

4330 Urban Political Processes (Cross-listed as PSC 4330)

See PSC 4330 for course information.

4331 Social Demography (Cross-listed as SOC 4331)

See SOC 4331 for course information.

4332 Science Leadership: Community Environmental Research (Cross-listed as GEO 4332)

Pre-requisite(s): Upper-level standing; and consent of instructor.

Development of science leadership skills through community-based research on environmental problems.

4333 Coastal Zone Management

Pre-requisite(s): Upper-level standing.

Strategies for managing beaches, deltas, barrier islands and coastal seas, including issues in flood and storm risk, pollution mitigation, recreational development and fisheries exploitation.

4335 Applied Environmental Impact Analysis

Government regulations and increased citizen awareness relationship to the impact of plans and projects on the environment. The course includes an examination of major environmental legislation and its impact on decision making in the public sector. Legislative Acts pertinent to the development of Environmental Impact Analysis are studied. (3-0)

4340 Environmental Archaeology (Cross-listed as ANT 4340 and ARC 4340)

See ANT 4340 for course information.

4344 Fundamentals of Toxicology (Cross-listed as BIO 4344)

Pre-requisite(s): CHE 1301, 1302, 3331, BIO 1305, BIO 1306 and BIO 3422; or consent of instructor.

Basic concepts of toxicology, including historical perspectives, the disposition and metabolism of toxic substances, pharmacokinetics, target organ toxicity, non-organ directed toxicity, toxic agents, industrial toxicology, forensic toxicology, environmental toxicology, toxicity testing techniques, and risk assessment.

4345 Water Management (Cross-listed as GEO 4345)

Interdisciplinary field of water management. Scientific, technical, institutional, economic, legal, and political aspects of water management. Fee: \$50

4349 Pollution Abatement and Prevention Systems

Pre-requisite(s): ENV 2375, 3333, 3387, CHE 1302, or EGR 1301; or consent of instructor.

Analysis, design, and performance of pollution treatment and remediation methods. Emphasis on the practices of pollution prevention, green chemistry, and industrial ecology as more sustainable pollution reduction strategies.

4350 Development and Indigenous Peoples (Cross-listed as ANT 4350)

Pre-requisite(s): ANT 1305, SOC 1305 or consent of instructor.

With particular reference to indigenous peoples, this course examines the ethnographic context of Third World development and evaluates key issues that influence the development process.

4351 Futuristics (Cross-listed as ANT 4351)

See ANT 4351 for course information.

4354 Water Treatment

Pre-requisite(s): ENV 1101, 1301, and 2375 or consent of instructor.

Water use, treatment and disposal. Topics to be examined include the history of human use, resource access, water and wastewater treatment, disposal and re-use, anthropogenic impacts, regulations, current practices and theory in application of municipal, commercial and domestic treatment strategies. Activities include lecture, discussion, field trips, and student participation in the department's On-Site Wastewater Testing Program.

4355 Principles of Renewable Resource Management

Theory, principles, and management of renewable resources to meet human needs. Field trips to management activities will be included. (3-0)

4362 Applied Anthropology (Cross-listed as ANT 4362)

See ANT 4362 for course information.

4365 The Environment and Energy

Pre-requisite(s): ENV 1301 and upper-level standing.

Fundamental concepts of energy: the nature of energy flows and storage, potential and kinetic energy, energy loss and reversible and irreversible processes. Renewable and non-renewable energy sources and the impact of energy consumption on problems of societal sustainability.

4369 Seminar in Anthropology (Cross-listed as ANT 4369)

See ANT 4369 for course information.

4370 Fundamentals of Ecotoxicology

Co-requisite(s): ENV 4170.

Pre-requisite(s): ENV 1301, ENV 2307, ENV 3210, BIO 1305, BIO 1306, and CHE 1302; or consent of instructor.

A survey of subjects critical to the study of contaminant impacts on the environment: principles of toxicology; use of toxicological information sources and data bases; ecological stressors and responses to better understand ecological risks.

4371 Wetlands (Cross-listed as GEO 4371)

See GEO 4371 for course information.

4373 Environmental Biodegradation and Bioremediation

Pre-requisite(s): BIO 1402 or 4401, CHE 3332, ENV 2375, or consent of instructor.

Principles of the biodegradation and possible bioremediation of organic chemicals in the soil environment.

4374 Global Soil Systems (Cross-listed as GEO 4373)

See GEO 4373 for course information.

4375 Natural Landscape Evaluation and Planning (Cross-listed as GEO 4375)

See GEO 4375 for course information.

4377 Advanced Studies in Wilderness, Parks, and Nature Reserves

Pre-requisite(s): ENV 3306 or consent of instructor.

Topics in the management of national or state parks, nature reserves or wilderness areas, such as recreational impacts, disturbance ecology, or environmental interpretation. May be conducted as an off-campus field seminar. Fee: \$100

4379 Ecosystem Planning and Management

Course utilizes ecosystem-based concepts and data to develop environmental management plans which also consider social variables, such as regulations, economic development, and community welfare. Students draft and present plans based on regional ecosystems.

4380 Restoration Ecology (Cross-listed as BIO 4381)

Pre-requisite(s): ENV 2375 and 2376, or BIO 3303.

Principles and practices for restoring natural systems that have been degraded or destroyed. Emphasis on re-establishment of soils, plants, and animals in terrestrial and aquatic environments. Legislative, political, industrial, and regulatory perspectives considered. (3-0)

4386 Remote Sensing (Cross-listed as AVS 4386, BIO 4386, and GEO 4386)

See GEO 4386 for course information.

4389 American Environmental History (Cross-listed as HIS 4388)

See HIS 4388 for course information.

4390 Chemical Investigation and Remediation

Pre-requisite(s): ENV 4387, CHE 1316, and 3332.

Methods of site analysis, toxicology of chemical contamination, use of "chemical fingerprinting," determination of exposure methods and exposure routes, analysis of epidemiological data, general methods for remediation of toxic and hazardous wastes, and use of both technical and moral considerations in decision making.

4393 Environmental Ethics (Cross-listed as REL 4393)

See REL 4393 for course information.

4394 Internship in Environmental Education

Pre-requisite(s): Consent of the Econnections coordinator.

Participation as a teaching intern in the Baylor Econnections program for Waco schools or in an approved off-campus program. Students must engage in preparation and teaching a minimum of six hours a week.

4397 Tropical Environments: Ecology and Sustainable Management

Pre-requisite(s): Consent of instructor and upper-level standing.

Off-campus field course exploring tropical ecosystems, such as rainforests and coral reefs. Investigation of past impacts of human cultures, and of sustainable practices for future environmental management. Topics may include agriculture, forestry, aquatic resources, energy production, and ecotourism. Fee: \$120

43C1 Environmental Capstone

Pre-requisite(s): Twenty hours of environmental science courses and upper-level standing.

Advanced seminar on application of environmental sciences and social science to environmental problem solving. Completion of research paper, research or management plan, and field examination. Fee: \$70

43C2 Environmental Capstone

Pre-requisite(s): Twenty hours of environmental science courses and upper-level standing.

Advanced seminar integrating principles of environmental science, social science, and policy to solve environmental problems. Assignments and subject matter may differ depending on the topic being evaluated and the instructor of record. Fee: \$50

4410 Humans and Environmental Change

Pre-requisite(s): Upper-level standing.

Effect of human activity on landscape evolution through time, including impacts of agriculture, forest clearing, mining, soil erosion, invasive species, pollution, and transportation infrastructure. Assessment and documentation of environmental change. Required laboratory section and weekend field trips. Fee: \$150

4450 Applied Forest Ecology

Pre-requisite(s): ENV 1301 or BIO 1306.

Ecological analysis of forest and woodland structure, energy and nutrient cycling, population dynamics and response to disturbance. Application of concepts to sustainable forest management. Fee: \$100

4485 Introduction to Geographic Information Systems (Cross-listed as AVS 4485, GEO 4485)

See GEO 4485 for course information. Fee: \$50

4487 Advanced GIS Analysis (Cross-listed as AVS 4487, and GEO 4487)

See GEO 4487 for course information. Fee: \$50

4613 Field School in Environmental Studies

Pre-requisite(s): Consent of instructor.

Application of the scientific method to the investigation and resolution of an environmental issue. Fee: \$200

4680 Field School in Cultural Anthropology (Cross-listed as ANT 4680)

See ANT 4680 for course information.

4V13 Special Topics in Field and Laboratory Methodologies

1 to 3 sem. hrs.

Pre-requisite(s): Upper-level standing or consent of instructor.

A field experience centered on a region, ecosystem type, or environmental issue. Incorporates system-specific sampling methodologies. Requires off-campus field trips. May be repeated up to a total of three credit hours when content differs. Fee: \$150

4V50 Problems 1 to 3 sem. hrs.

Advanced interdisciplinary study of the environment. Subject and hours credit mutually agreed upon by student and directing professor(s) prior to registration. May be repeated for a maximum total credit of three semester hours.

4V90 Advanced Individual Research Problems 1 to 3 sem. hrs.

Pre-requisite(s): Consent of the instructor; and ENV 3V90 or completion of a departmental application providing a description of the project.

A research project conducted under the supervision of a Baylor faculty member in Environmental Science, a supporting department, or a pre-approved off-campus laboratory or field station. Students must participate in project design, data analysis, or reporting. Three hours of laboratory or field work per week will be required during fall or spring semester, or fifty hours total during the summer, for each semester hour of credit. This course may be repeated for up to six semester hours of credit. Fee: \$100

4V93 Internship in Environmental Planning or Management

1 to 3 sem. hrs.

Pre-requisite(s): Consent of a Baylor faculty sponsor; and completion of a departmental application.

An internship with the City of Waco, a federal or state agency, Christian or non-profit organization or with industry to acquire practical experience in environmental planning or management. The course may be repeated for up to three semester hours of credit. Fee: \$50

Family and Consumer Sciences (FCS)

1104 New Student Seminar in Family and Consumer Sciences

History, interdependence and integrative nature of FCS program areas and their role in the study of health and human sciences. A New Student Experience (NSE) course examining techniques for academic success, finding purpose and connection with Baylor, and professional and career options. (1-0)

1231 Design and Creative Technologies

The study of art and design principles through the use of creative technologies including image creation and editing software, digital sketching and illustration, and project management systems, to develop communication and marketing materials. (2-0)

2100 Directed Study in Family and Consumer Sciences

Pre-requisite(s): Consent of instructor.

Individual study of selected areas of interest in family and consumer sciences.

2200 Directed Study in Family and Consumer Sciences

Pre-requisite(s): Consent of instructor.

Individual study of selected areas of interest in family and consumer sciences.

3100 Applied Undergraduate Research in Family and Consumer Sciences

Pre-requisite(s): Junior level standing.

In-depth undergraduate research. This class is intended for application-oriented, individualized professor-supervised undergraduate research applications.

3304 Introduction to Research in Family and Consumer Sciences

Pre-requisite(s): Junior standing or higher.

Research methods, experimental procedures, writing, and reporting data within the various areas of Family and Consumer Sciences. The format of the course includes a combination of lecture and discussion, writing assignments, literature review, and/or oral presentations.

3320 Methods of Teaching Family and Consumer Sciences

Pre-requisite(s): Fifteen hours of family and consumer sciences, junior standing, and admission to the School of Education.

Teaching materials and methods, media, and the philosophy of vocational education. (3-0)

3321 Curriculum and Evaluation in Family and Consumer Sciences

Pre-requisite(s): Junior standing, eighteen hours of family and consumer sciences and admission to the School of Education.

Curriculum planning, teaching strategies, evaluation, and classroom management. Each student will spend two hours each week in an approved field experience.

3375 Global Perspectives in Housing

Pre-requisite(s): Upper-level standing.

Research and exploration in housing differences around the world as a factor of cultural, political, environmental, economical and social influences.

4322 Student Teaching in Family and Consumer Sciences

Pre-requisite(s): A minimum grade of C in FCS 3321; and senior standing; and completion of all family and consumer sciences and education courses.

Supervised observation of and participation in various phases of a high school vocational home economics program for a full school day for a half semester. Required for vocational home economics teaching certificate.

4332 Occupational Family and Consumer Sciences

Pre-requisite(s): Upper-level standing or consent of instructor.

Study of the occupational family and consumer sciences programs in Texas. Each student will spend two hours each week in an approved field experience. (3-0)

4367 Family Transitions, Stress, and Resilience

Pre-requisite(s): Upper level standing or consent of the instructor.

Current theory and models seeking to understand family transitions, stress, coping, adaptation, and resilience.

4623 Student Teaching in Family and Consumer Sciences

Pre-requisite(s): A minimum grade of C in FCS 3321, senior standing; completion of all family and consumer sciences and education courses.

Continuation of FCS 4322. Required for vocational family and consumer sciences teaching certificate.

4V93 Special Studies in Family and Consumer Sciences 1 to 3 sem. hrs.

Pre-requisite(s): Senior standing; or consent of instructor.

Current issues in family and consumer sciences will be examined through seminars, special topics, practicums and individual research experiences. May be repeated with different content for a maximum of six semester hours.

Film Digital Media (FDM)

1101 New Student Seminar in Film & Digital Media

A New Student Experience course for first-year and transfer students entering as Pre-Film & Digital Media majors. Designed to help students acclimate to college life with a specific focus on the Film & Digital Media major, opportunities for FDM majors, and future career options.

1198 Practicum in Audio Production

Supervised practical experience in audio production. May be repeated for three credit hours.

1199 Practicum in Video Production

Pre-requisite(s): Consent of instructor.

Supervised practical experience in video production. May be repeated for three credit hours.

1303 Introduction to Mass Communication (Cross-listed as JOU 1303)

The mass media, how they operate, and how they affect society.

1304 Visual Literacy: Sight, Sound, Motion

Examines how pictures, sounds, and motions communicate sense and meaning in contemporary media. Considers the major aesthetic image elements -- light, color, space, time, motion, and sound -- and how they are used in film, video, and computer media.

1309 Introduction to Film

Examines and explores representative masterpieces of cinema. Seeks to enhance understanding of the cinematic experience through non-technical discussions and analyses of films. Also considers the times and lives of the filmmakers.

2351 History of Motion Pictures

Pre-requisite(s): Not open to Pre-Film and Digital Media students.

International and domestic cinema since 1880, focusing on film as an art form and changes due to social, political, economic, ideological, and cultural influences.

2352 History of Radio and Television

Pre-requisite(s): Not open to Pre-Film and Digital Media students.

Radio and television since 1890, focusing on developments in technology, economics, management, programming, audiences, regulation, and the roles of radio and television in society.

2360 Production Methods

An introduction to single-camera, multiple-camera, and audio production using basic video and audio equipment. Fee: \$195

3315 Broadcast Writing (Cross-listed as JOU 3315)

See JOU 3315 for course information.

3320 Business of Media

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

Principles of business theory and practice associated with the production, promotion, and distribution of media, including the broadcasting, cable, recording, satellite, Internet, video game, and cinema industries.

3321 Media Programming

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

Process of media programming, including economic, legal, and audience factors. Analysis of programming practices from organizational and political viewpoints. Class programming project.

3361 Production Methods II

Pre-requisite(s): FDM 2360 or consent of instructor. Not open to Pre-Film and Digital Media students.

Further development of the technical abilities and conceptual approaches to single-camera and multiple-camera digital media production introduced in FDM 2360, Production Methods. Fee: \$120

3372 Writing for Media Markets (Cross-listed as JOU 3372)

See JOU 3372 for course information.

3373 Screenwriting

Pre-requisite(s): Upper-level standing. Not open to Pre-Film and Digital Media students.

Development of skills in writing a feature film screenplay. Topics include theme, plot, characterization, dialogue, story structure, filmic time, filmic space, filmic motion, script format, and script revision. Students will generate their own feature film idea and complete a first draft screenplay.

3374 Television Writing

Pre-requisite(s): Upper-level standing. Not open to Pre-Film and Digital Media students.

Analysis of various television production formats such as half-hour sitcoms, one-hour dramas, and two-hour movies-of-the-week. Students will generate an original script idea for an existing television program and complete a first draft teleplay.

3380 Sound Design (Cross-listed as THEA 3380)

See THEA 3380 for course information.

4313 Diffusion of Innovations

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

An introduction to old and emerging theories which explain the spread of innovative ideas and technologies among members of a society, emphasizing the role of communication processes and the special problems for diffusion in communication technology.

4314 Digital Media Technologies

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

Analysis of the technical foundations of communication media, the interrelationships among the various media technologies, and the impact of these technologies on media management, content, distribution, and consumption.

4330 Survey of French Cinema Cross-listed as FRE 4330.

See FRE 4330 for course information.

4340 Media and Society

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

Roles of the media in society and their relationship with other societal institutions. Impacts of the media upon society, responsibilities of the media, and restraints imposed upon them.

4341 Electronic Culture

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

An examination of the issues at the intersection of modern media technology, philosophy, and contemporary culture.

4342 Art and the Moving Image

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

An examination of the cinema as an art form in the context of other artistic media (such as painting, music, etc.).

4343 Film and Video Aesthetics: Theory and Criticism

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

The artistic potential of motion picture and television production, including major film theories, film and video criticism, and visual aesthetics. Dramatic narrative (fiction), documentary (non-fiction), and non-narrative subjects will be analyzed.

4347 Communication and Culture

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

An examination of the reciprocal functions of communication and urban culture as they continue to shape and define each other. Specific areas of inquiry vary each semester. May be repeated once with a different topic (maximum six semester hours).

4361 Audio Production

Pre-requisite(s): FDM 3361 or consent of instructor. Not open to pre-Film and Digital Media students.

Advanced audio techniques for media productions, technical and conceptual aspects of sound design. Emphasis on sound/image relationships in film and video, and the interface between traditional analog and digital audio technologies. Includes recording, editing, and mixing of audio sources in the creation of original sound tracks. Fee: \$110

4362 Short Film Production

Pre-requisite(s): FDM 3361. Not open to pre-Film and Digital Media majors.

Advanced short narrative digital cinema production with emphasis on storytelling, theme, and mise-en-scene. Fee: \$115

4363 Advanced Digital Production

Pre-requisite(s): FDM 3361, FDM 4365, and consent of instructor. Not open to pre-Film and Digital Media majors.

Develops proficiency in producing, directing, and editing of advanced digital content using single camera and multi-camera studio techniques. Covers pre-visualization, visual effects compositing, digital audio, and postproduction. Emphasis on bringing ideas from conception to realization in a professional setting. Fee: \$170

4364 Interactive Media

Pre-requisite(s): FDM 3361 or consent of instructor. Not open to Pre-Film and Digital Media students.

Interactive media elements and authoring systems, emphasizing the integration of computer technology in the development of interactive media messages. Fee: \$115

4365 Lighting and Cinematography

Pre-requisite(s): FDM 3361 or consent of instructor. Not open to Pre-Film and Digital Media students.

Advanced film and video production with emphasis on the techniques, equipment, and theories involved in lighting and cinematography. Emphasis on the role of the cinematographer or director of photography.

4366 Post Production

Pre-requisite(s): FDM 3361 or consent of instructor. Not open to Pre-Film and Digital Media students.

Advanced film and video production with emphasis on the techniques, equipment, and theories involved in editing film and video. Emphasis on the use of computer-based non-linear editing systems. Fee: \$110

4367 Film and Video Direction

Pre-requisite(s): FDM 3361 or consent of instructor. Not open to Pre-Film and Digital Media students.

In-depth investigation into the history, theory, and basic concepts of film and video direction; script preparation; story-boarding; blocking actors and staging the camera; sound; and editing. Projects include directing and shooting short videos. Fee: \$85

4369 Producing

Pre-requisite(s): Upper level standing or permission of instructor. Not open to Pre-Film and Digital Media students.

Current film and television industry practices, including analysis of literary material, industry structure and economics, pitching, deal-making, and distribution.

4371 Advanced Sound Design (Cross-listed as THEA 4384)

See THEA 4384 for course information.

4373 Advanced Screenwriting

Pre-requisite(s): FDM 3373 or permission of instructor. Not open to Pre-Film and Digital Media students.

Workshop course for advanced writers of narrative fiction screenplays emphasizing discussion of student work.

4380 Topics in Media History

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

In-depth investigation of important historical eras in the development of various media, for example, cinema, television, radio, and gaming. May be repeated twice under different topic not to exceed nine credit hours.

4381 Topics in Media Management and Technology

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

Examines media management issues and the impact of technological innovations on a wide range of media industries including broadcasting, Internet, telecommunication, cable, satellite, video game, and digital cinema. May be repeated twice under different topics, not to exceed nine credit hours.

4382 Topics in Media Storytelling

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

Examines a selected topic in film, television, radio/audio, games, or other form of digital media storytelling. May be repeated twice under different topics, not to exceed nine credit hours.

4384 Topics in National Media

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

An aesthetic, cultural, and/or historical examination of a selected national mass medium, for example, Japanese Cinema, British Television, or French New Wave Cinema. Focuses on directors, films/programs, movements, and cultural contests of national media. May be repeated twice under different topics not to exceed nine credit hours.

4388 Topics in Media Production

Pre-requisite(s): FDM 3361 or consent of instructor. Not open to Pre-Film and Digital Media students.

Advanced media production with emphasis on one particular aspect of production. Topics covered may include cinematography, experimental film or video collaborative projects, documentary, studio drama, narrative, and other topics. May be repeated twice under different topics not to exceed nine credit hours. Fee: \$160

4396 Topics in Media Genres

Pre-requisite(s): Upper-level standing or consent of instructor. Not open to Pre-Film and Digital Media students.

An analysis of major media genres (in film, television, gaming, and other media). Methodological issues in genre criticism will also be addressed. May be repeated twice under different topics not to exceed nine credit hours.

4397 Topics in Contemporary Cinema

Pre-requisite(s): Upper-level standing. Not open to Pre-Film and Digital Media students.

An academic examination of current cinema. Topics covered may include contemporary world cinema, contemporary American cinema, artists/directors, philosophy, history and other topics. May be repeated once with a different topic.

4V03 Internship in Electronic and Film Media 1 to 3 sem. hrs.

Pre-requisite(s): Undergraduate: fifteen hours in major; graduate: consent of graduate director. Not open to Pre-Film and Digital Media students.

Designed to fit the needs and interests of the individual student. Interns may select activities in a broadcast station or network, wire service, film production hours, corporate communications department, advertising agency, or in other appropriate organizations. Internships must be approved by the division director (undergraduate) or graduate director (graduate) and are carried out under the supervision of the division director. May be repeated for a total of six semester hours provided the professional setting is different. Graduate students will be limited to three hours credit.

4V30 Seminar in Electronic and Film Media 1 to 3 sem. hrs.

Pre-requisite(s): Not open to Pre-Film and Digital Media students.

Study of a current topic in electronic media and/or film, including directed research and reading. May be repeated once with different topic.

4V85 Special Problems in Telecommunication 1 to 3 sem. hrs.

Pre-requisite(s): Fifteen semester hours in Communication Studies (CSS or FDM), and consent of instructor. Not open to Pre-Film and Digital Media students.

A conference course designed to give individual students opportunities for additional work in their area of concentration in the film and digital media division of the department. One to three hours may be earned a semester. May be repeated once with change in content.

4V98 Electronic and Film Media Workshop 3 to 6 sem. hrs.

Pre-requisite(s): Consent of instructor. Not open to Pre-Film and Digital Media students.

A directed project to a detailed individual or group radio, television, or film production including preproduction, research and concept development, production, post production, and planning for distribution. May be repeated once in a different semester for a total of six semester hours. Fee: \$125

Finance (FIN)

3100 Stock Market Operations

The role of the stock exchanges, stockbrokers, and brokerage firms in facilitating the trading of stock.

3301 Personal Finance

Pre-requisite(s): A minimum grade of C in ACC 2301 or 2303. (This course will not count toward the BBA degree if taken concurrently with, or after completing BUS 3302.)

A study of personal financial decisions that individual must make in today's world. Topics include budgeting and household liquidity; personal income taxes; charge accounts, credit cards, and consumer loans; personal insurance including life, health and disability, homeowners, and auto; investments including stocks, bonds, mutual funds, and tangible assets; buying and financing homes, automobiles, and other consumer durables; and wills, trusts, and estate planning.

3305 Principles of Risk Management and Insurance

Pre-requisite(s): Only open to RMI majors.

Techniques for managing pure risks in order to maximize the value of a firm. The course contrasts the risk preferences of corporations with that of individuals and explores the implications of differing preferences on insurance purchase decisions. The characteristics of as a tool in the process of managing both corporate and personal risk exposures are emphasized.

3309 Introduction to Finance

Pre-requisite(s): A minimum grade of C in ACC 2303, ACC 2304, ECO 2306 and ECO 2307; completion of MTH 1309 or 1321. Only open to BBA students.

A study of the way money is managed by individuals and businesses. The course explores how financial markets operate, how individuals and corporate managers analyze investment opportunities and how they raise money to fund those investments. This course is designed as a survey of the application of financial analysis to a broad set of problems and is appropriate for undergraduate students from any major who meet the course Pre-requisite(s)s.

3310 Introduction to Corporate Finance

Pre-requisite(s): A minimum grade of C in ACC 2303 and ECO 2306 or 1380; completion of MTH 1309 or 1321. Only open to BBA students.

A study of long-term financial decision making by corporations with a focus on how firms raise cash, invest cash, and distribute cash back to investors. Specific topics include how cash flow, time, risk, information, market imperfections and potential conflicts of interest affect financial decisions. Excel modeling of financial decisions is integrated throughout the course.

3405 Principles of Real Estate

Pre-requisite(s): ECO 2306. Only open to RE majors.

An introduction to real estate principles and practices, including ethics, titles to and conveyance of real estate, legal descriptions and deeds, encumbrances, closing procedures, land economics, real estate finance, brokerage (including an overview of licensing as a real estate broker and salesperson), marketing, appraising, real estate investment, and taxation. Additional topics include law of agency, contracts, distinctions between personal and real property, real estate mathematics, government fair housing and fair lending law, land use planning, market and feasibility analysis, zoning (including urban problems and environmental hazards), primary and secondary markets, and real estate management. This is a four-credit hour course that has been approved by the Texas Real Estate Commission as one of the required courses for those seeking a Texas real estate sales license.

4186 Practicum in Small-Cap Investing II

Pre-requisite(s): A minimum grade of C in FIN 4285; only open to BBA students.

This course gives students valuable hands-on experience researching, analyzing, and managing a portfolio of small-cap stocks. The level of security research and valuation analysis will mirror that experienced working in industry. Each student will be required to produce a stock research report and present their recommendations to the other analysts managing the investment fund.

4285 Practicum in Small-Cap Investing I

Pre-requisite(s): Only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course gives students valuable hands-on experience researching, analyzing, and managing a portfolio of small capitalization (small-cap) stocks by managing the Hodges Fund. The level of security research and valuation analysis will mirror the experience working in the industry.

4310 Entrepreneurial Finance

Pre-requisite(s): A minimum grade of B- in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Examines the intriguing process of financing the pursuit of opportunity and growth without regard to assets controlled currently. The major focus is on start-up or acquisition and the initial stages of growth. There is an emphasis on high growth firms, and the central objective is to gain an understanding of how entrepreneurs obtain and use financial resources. The course also examines how value is created.

4311 Fundamentals of Life and Health Insurance

Pre-requisite(s): A minimum grade of C in either FIN 3309 or 3310, or consent of the instructor; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of the financial implications of death, disability and retirement, as well as the corresponding forms of individual life insurance, health insurance and annuities. Elementary life and health insurance programming, taxation, legal aspects, business uses of individual life and health insurance, regulation, and insurer operations and functions are covered.

4315 Baylor Angel Network Practicum

Pre-requisite(s): Instructor approval; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

The Baylor Angel Network Practicum is to provide a unique learning opportunity for exceptional undergraduates, allowing the students to receive hands-on experience by working closely with private-equity investors and entrepreneurs seeking funding for seed or early-stage companies.

4320 Fundamentals of Property and Liability Insurance

Pre-requisite(s): A minimum grade of C in either FIN 3309 or 3310, or consent of the instructor; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of the property-liability insurance industry, including the economic and financial issues inherent in property-liability insurance contracting. Topics may include commercial insurance contracts, automobile insurance costs and prices, tort reform effects on insurance markets, economics of distribution systems, corporate governance and organizational form, pricing models, solvency measurement, solvency regulation and market discipline, reinsurance and catastrophic risk, underwriting and risk selection, rate-making techniques, and underwriting cycles.

4329 Real Estate Appraisal

Pre-requisite(s): FIN 3405 and a minimum grade of C in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

The valuation of real estate including the functions, purposes and techniques of appraising land and improvements. Additionally, an extensive review of the concepts of ownership interests, zoning, land use regulation and related topics that affect the value of real estate is included. Students will be instructed in the use of the three fundamental approaches to valuation: the sales comparison approach, the cost-less depreciation approach, and the income capitalization approach as well as capitalization techniques used in the profession. This course also examines the rule of market analysis in the valuation process.

4331 International Business Finance (Cross-listed as INB 4331)

Pre-requisite(s): A minimum grade of B- in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of international financial management, including multinational corporations (MNCs), international financial markets, international trade, foreign exchange rate, currency futures, forwards, options and swaps, currency exposures, and short- and long-term financing decisions of MNCs. With a focus on the enhancement of analytical skills based on the tools and theory of international finance, this course will promote critical thinking skills of the student.

4332 Employee Benefit Planning

Pre-requisite(s): A minimum grade of C in either FIN 3309 or 3310, or consent of the instructor; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

An examination of the rationale for, and basic details of, (1) employer provided group-life and group-health benefits, (2) private pension plans, and (3) government requirement required benefits, including social security, Medicare and Medicaid, disability income, and unemployment benefits. The approach focuses on the economic theory and historical developments of each of these areas.

4335 Business Risk Management

Pre-requisite(s): A minimum grade of C in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course covers the new and emerging field of integrated, or enterprise risk management. Specifically, it examines the use of insurance as well as various financial instruments to control the costs of corporate risk. Emphasis is placed on the identification, evaluation, and management of corporate risks. Besides examining traditional hedging strategies, the course also considers techniques such as leveraging, post-loss financing, contingent financing, and diversification.

4339 Real Estate Investments

Pre-requisite(s): FIN 3405 and a minimum grade of C in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

An analysis of real estate investments using ARGUS Financial Analysis, the real estate industry's leading computer software specifically designed for the analysis of income-producing properties. Additionally, an extensive review of legal issues related to ownership interests, mortgages, fair housing, and ADA requirements is included. Current issues as well as analytical methods are presented in a case study approach. Creative financing and income tax considerations are also included.

4340 Real Estate Finance

Pre-requisite(s): FIN 3405 and a minimum grade of C in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

The flow of real estate funds, including the origination process, the secondary market, and the securitization of mortgage pools. Excel software is used to analyze the cash flow and amortization characteristics of fixed-rate, variable-rate, and graduated-payment mortgages. Issues pertaining to tenure choice, expected mortgage life, and refinancing are also investigated.

4350 Financial Modeling

Pre-requisite(s): A minimum grade of B- in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course is designed to provide proficiency in various analytical tools used by financial managers and analysts. Students will learn how to link financial theory to data to ultimately frame and answer questions, solve problems, and make informed financial decisions. This course bridges abstract ideas related to corporate strategy to concrete practices like firm valuation by learning to use relevant analytical tools.

4360 Advance Corporate Finance

Pre-requisite(s): A minimum grade of B- in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

The class applies the tools of financial analysis and financial theory to explore capital allocation and capital acquisition decisions of corporations. Students review and develop an understanding of the seminal theories that underpin the study and practice of finance.

4361 Short-Term Financial Management

Pre-requisite(s): A minimum grade of B- in FIN 3310 or a minimum grade of B in FIN 3309 and registered for FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

An advanced study of short-term financial management and financial statement analysis. Topics include cash management, credit and collections, payables management, bank relations, short-term investing and borrowing, and management of interest rate and foreign exchange risks. The class will provide partial preparation for students wishing to take the Certified Treasury Professional (CTP) exam.

4363 Mergers and Acquisitions

Pre-requisite(s): A minimum grade of B- in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

The objective of this course is to examine mergers and acquisitions (M&A) through the lens of financial economics. Though there are a significant number of other disciplines involved in M&A (i.e., Accounting, Law, Economics, Management, etc.), we will focus primarily on the financial aspects of these transactions.

4365 Investment Analysis

Pre-requisite(s): A minimum grade of B- in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Investment decision making with emphasis on stocks, bonds, and portfolio management. Major topics include portfolio theory and the measurement of risk, performance evaluation, the efficient markets hypothesis, valuation of securities, and portfolio composition in relation to investor objectives. Other topics may include the functioning of the securities markets, securities law and regulations, and an introduction to derivative securities.

4366 Options, Futures, and Other Derivatives

Pre-requisite(s): A minimum grade of B- in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course covers derivative securities such as futures, forwards, swaps and options. Such securities are referred to as "derivatives" because their values depend upon the values of other assets. This course presents a conceptual framework for understanding how to price derivatives and design risk management strategies.

4367 Seminar in Personal Financial Counseling

Pre-requisite(s): FIN 3301, FIN 4311, FIN 4365, and ACC 4377; not open to pre-business students.

The student will be required to apply a knowledge of investments, insurance, taxation, retirement benefits, and estate planning through case analysis. Actual financial plans will be constructed, and students will gain experience in financial consulting. This course will prove beneficial to students desiring a CFP (Certified Financial Planner) or ChFC (Chartered Financial Consultant).

4370 Financial Analysis and Banking

Pre-requisite(s): A minimum grade of B- in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

An advanced study of financial statement analysis that includes fraud; window dressing; and normalizing cash flows to uncover sustainable financial performance. This part of the course develops a student's ability to tell a story about a company by cohesively fitting the pieces of a puzzle together and making the numbers talk. Credit risk and loan underwriting techniques that mitigate risk are also discussed in a commercial banking context. Other topics include the role of financial institutions as intermediaries between providers and users of investment funds; commercial bank financial statement analysis; pricing fixed income securities; and managing interest rate risk. Lectures and readings are augmented with group projects and/or case studies.

4381 Practicum in Portfolio Management

Pre-requisite(s): FIN 4365 or equivalent and consent of instructor; only open to BBA students.

This practicum gives students valuable hands-on experience in securities research, valuation of risky assets, and asset allocation by managing the Philip M. Dorr and Alumni Endowed Investment Fund. Through readings and student-prepared research reports students develop skills in evaluating economic, industry, and firm data; integrating such data into securities analysis; and communicating their research results to others.

4387 Seminar in Contemporary Financial Economics

Pre-requisite(s): A minimum grade of C+ in FIN 3310; not open to pre-business students.

This course integrates economic theories of market structure, marginal analysis, and incentive contracts with the finance theories of value creation, market efficiency, and agency conflicts to model specific business behaviors. Mass marketed audiovisual presentations are used to give context to the seminar discussions. Specific topics: investment banking, international derivative securities, mergers and acquisitions, compensation incentives, labor and business ethics.

4V97 Special Studies in Real Estate**1 to 6 sem. hrs.**

Pre-requisite(s): FIN 3405 and consent of department chairperson; not open to pre-business students.

With the consent of the chair of the Department of Finance, Insurance, and Real Estate, this course may be taken for one to six semester hours of credit with change of topic.

4V98 Special Studies in Finance**1 to 6 sem. hrs.**

Pre-requisite(s): A minimum grade of B- in FIN 3310; not open to pre-business students.

With the consent of the chair of the Department of Finance, Insurance, and Real Estate, this course may be taken for one to six semester hours of credit.

4V99 Special Studies in Risk Management and Insurance 1 to 6 sem. hrs.

Pre-requisite(s): FIN 3305; not open to pre-business students.

With the permission of the chair of the Department of Finance, Insurance, and Real Estate, this course may be taken for one to six semester hours of credit.

First Year Seminar (FYS)

1399 First Year Seminars

Introduces first year students to the world of academics and the scholarly community through exploration of a topic of significant cultural/social importance with a distinguished faculty member. Includes emphasis on critical inquiry and thinking, research, writing, and problem solving. First Year Seminars are offered in history, biology, English, political science, economics, psychology, neuroscience, social work, classics, and other departments. The course may be repeated once under a different department and topic.

Forensic Science (FORS)

1390 Survey of Forensic Science

An introduction to forensic science with a focus on the history and current state of disciplines including crime and death scene investigation, chain of custody procedures, the forensic laboratory and its components and expert testimony. Field trips, guest speakers and hands-on activities. Fee: \$50

2357 Crime Scene Investigation

Examining and processing the crime scene for physical evidence such as fingerprints, footwear impressions, trace evidence, occult blood, and DNA. Photography, search strategies, collection methods, and legal considerations. Includes laboratory exercises, demonstrations, and a mock crime scene workup.

2391 Topics in Forensic Science Methods I

Pre-requisite(s): Consent of instructor.

Lecture and field experience in the methods and techniques of forensic science. Topics will vary. May be repeated once under a different topic. Fee: \$50

3310 Bloodstain Pattern Analysis

Pre-requisite(s): FORS 1390 or FORS 2357 or consent of instructor.

Recognition of bloodstain pattern evidence, flight characteristics, motion, and force. Includes hands-on activities. Fee: \$75

3320 Trace Evidence

Pre-requisite(s): FORS 1390 or FORS 2357 or consent of instructor.

Trace evidence at crime scenes; includes hair, fibers, soils, paint, bloodstains, fluids, and other substances. Fee: \$75

3330 Impression Evidence

Pre-requisite(s): FORS 1390 or FORS 2357 or consent of instructor.

Impression evidence at crime scenes; includes fingerprints, footwear, tires, firearms, tool marks, and bite marks. Fee: \$75

3331 Human Osteology (Cross-listed as ANT 3331)

See ANT 3331 for course information.

3340 Expert Witness Testimony

Pre-requisite(s): FORS 1390 or FORS 2357 or consent of instructor.

The forensic expert witness in the courtroom. Class taught in conjunction with practice court presentations at the Baylor Law School.

3350 Forensic Application of White-Collar Crime

Pre-requisite(s): FORS 1390 or FORS 2357 or consent of instructor.

Investigations of white-collar crimes and their place in forensic science.

3360 Forensic Firearms Evidence

Pre-requisite(s): FORS 1390 or FORS 2357 or consent of instructor.

Firearm evidence; includes nomenclature, analytical methods, gunshot residues, ballistics, and shooting incident reconstruction. Fee: \$75

3370 Medicolegal Death Investigation

Pre-requisite(s): FORS 1390 or FORS 2357 or consent of instructor.

An in-depth study into the practices and principles of death investigation and autopsy protocols from medical, scientific, and legal perspectives, including the investigation of natural and unnatural causes of death, such as asphyxia, toxicity, blunt force trauma, sharp force trauma, and natural disease processes.

3380 Advanced Forensic Investigations

Pre-requisite(s): Instructor consent only.

This course provides training in crime scene investigative specialties in conjunction with forensic science techniques, including simulated crime scenes beginning with the initial report of the offense and continue through courtroom procedures and the legal process.

3392 Topics in Forensic Science Methods II

Pre-requisite(s): FORS 2357, BIO 1105-1305, and CHE 1100-1300; and consent of instructor.

Lecture and field experience in the methods and techniques of forensic science. Topics will vary. May be repeated once under a different topic. Fee: \$75

3393 Forensic Analysis of Biological Evidence

Pre-requisite(s): BIO 1306, FORS 2357 or consent of instructor.

A specialized course on biological materials relevant to a legal setting. Topics include microorganisms and bioterrorism, invertebrates, pathology, hair, and human biological materials. Fee: \$75

3394 Forensic DNA Analysis

Pre-requisite(s): BIO 2306 or concurrent enrollment, or consent of instructor.

A specialized course on the use of DNA evidence in legal situations. Topics include basic DNA techniques, forensic DNA profiling, DNA databases, and DNA statistics in a lecture and applied format. Fee: \$75

4355 Forensic Anthropology (Cross-listed as ANT 4355)

See ANT 4355 for course information.

4359 Death, Injury, and Physical Remains (Cross-listed as ANT 4358)

Pre-requisite(s): FORS 3331 or ANT 3331 and FORS 4355 or ANT 4355.

An in-depth study looking at the information the forensic anthropologist provides the medical examiner or coroner in determining the manner of death in a forensic context. Fee: \$100

4V50 Independent Topics in Forensic Science

1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor.

Individual topics not available in formal courses of the department. May include independent study or research; directed reading; supervised work in the library, laboratory, or field; or presentation of material.

French (FRE)**1401 Elementary French**

Introduction to French language and culture; pronunciation, grammar, reading of simple texts and conversation. Fee: \$50

1402 Elementary French

Pre-requisite(s): FRE 1401.

Continuation of FRE 1401. Fee: \$50

1412 Accelerated Elementary French

Pre-requisite(s): Appropriate score on departmental placement exam; or departmental approval.

An intensive course in first-year college French especially for students with two-three years of high school French. Covers the content of FRE 1401 and 1402 in only one semester. Fulfills the language requirement only when combined with FRE 2310 and 2320 (or the equivalent unless stipulated otherwise). As grammar is reviewed, emphasis is placed on the major skill areas (ACTFL Guidelines): reading, writing, listening, speaking, and cultural awareness. Fee: \$50

2310 Intermediate French

Pre-requisite(s): FRE 1402 or 1412 or appropriate score on departmental placement exam; or departmental consent.

Conversation, composition, cultural readings, and grammar review. Fee: \$50

2312 Intermediate French for Business

Pre-requisite(s): FRE 1402 or FRE 1412 or appropriate score on departmental placement exam.

Introduction to French business publications and development of communication skills within a business context. This course is designed primarily for students seeking a B.B.A. degree but may be substituted for FRE 2310 and used in fulfillment of the foreign language requirement in the College of Arts and Sciences. Fee: \$50

2320 Intermediate French

Pre-requisite(s): FRE 2310 or 2312 or appropriate score on departmental placement exam; or departmental approval.

Continuation of FRE 2310. Fee: \$50

3301 Advanced French Grammar

Pre-requisite(s): FRE 2320 or appropriate score on departmental placement exam; or departmental approval.

Problems in French syntax.

3302 Conversational French

Pre-requisite(s): FRE 2320 or appropriate score on departmental placement exam; or departmental approval.

Conversation, original composition.

3305 Introduction to Commercial French

Pre-requisite(s): One 3000 level French course or consent of division director.

Study of the essential vocabulary and style specific to French business, the basic workings of the French economy, the services which support the system. Discussions and oral reports in French, translations, writing business correspondence.

3306 French Phonetics

Pre-requisite(s): FRE 2320.

A review of the French sound system through practice in pronunciation.

3307 Bon appetit: Cuisine and Culture in the French-Speaking World

Pre-requisite(s): FRE 2320 or consent of Division Director.

The cuisine and culture of France and the Francophone world.

3308 French and Francophone Pop Culture

Pre-requisite(s): FRE 2320.

Popular culture in France and the Francophone world as represented in film, music, popular literature, mass media, gastronomy, and fashion.

3310 Introduction to French Literature

Pre-requisite(s): FRE 2320.

Introduction to French literature through the study of selected major works.

3312 Children's Literature in French

Pre-requisite(s): FRE 2320.

Children's literary genres including the classic novel, the short story, picture books, folk and fairy tales, as well as African contes.

3315 Panorama of French Theater

Pre-requisite(s): FRE 2320.

A study of French theater involving the reading, discussion, viewing, and performance of representative plays from the middle ages to the twentieth century.

3320 Conversation and Composition in Paris

Pre-requisite(s): FRE 2320 or consent of division director.

Further development of communication skills through discussions, projects, and original composition. Geared to the intensive environment of the Baylor-in-Paris program.

3325 Advanced Conversation and Composition

Pre-requisite(s): FRE 2320.

Advanced oral and written communication.

3330 Introduction to French Cinema

Pre-requisite(s): FRE 2320.

Study of French film for insights into French culture as well as for the enhancement of language skills.

3337 French Civilization

Pre-requisite(s): One 3000 level French course or consent of division director.

The social, cultural, historical, and intellectual aspects of French civilization from its origins to the twentieth century.

3338 Contemporary France

Pre-requisite(s): One 3000 level French course; or consent of division director.

Contemporary French culture from the beginning of the Fifth Republic in 1958 to the present.

3340 Paris: A Cultural Overview

Pre-requisite(s): FRE 2320.

The culture, history and urban make-up of Paris as well as its place in French literature, cinema and the "chanson." Use of texts, music, film and the Internet.

3341 Tour de France: Regions and Provinces

Pre-requisite(s): FRE 2320.

The cultural, economic, geographical and historical aspects of France's regions and former provinces.

3348 A Moveable Feast: An Exploration of Paris and Its Culture

Pre-requisite(s): FRE 2320.

Chronological study of Paris through literary texts, theatrical presentations, and excursions to cultural and historic sites in and around the city

3351 Introduction to French Linguistics

Pre-requisite(s): FRE 2320 or division approval.

The systematic study of the sounds, structures, and meanings of the French language and its dialects.

3V70 Special Problems 1 to 3 sem. hrs.

Pre-requisite(s): Consent of division director.

With content changed, this course may be repeated once for credit.

4301 Topics in French Grammar

Pre-requisite(s): FRE 3301 or consent of instructor.

Continued study of French grammar focusing on problematic structures.

4315 Methods of Foreign Language Teaching (Cross-listed with GER 4315 and SPA 4315)

See SPA 4315 for course information.

4328 Francophone Culture and Literature

Pre-requisite(s): One 3000 level French course or consent of division director.

Selected readings, films, and music from Francophone Africa, Caribbean, America, and Asia.

4330 Survey of French Cinema Cross-listed as FDM 4330.

Pre-requisite(s): Upper-level standing or consent of the instructor.

New course description: The history of French cinema from the Lumiere brothers in the 1890s to contemporary French film. Taught in English and does not count towards the language requirement.

4331 French Writers and Ideas I: From Roland to Revolution

Pre-requisite(s): One 3000 level French course or consent of division director.

French literature from its origin through the eighteenth century.

4332 French Writers and Ideas II: From Romanticism to Post-Modernism

Pre-requisite(s): One 3000 level French course or consent of the instructor.

French literature of the nineteenth and twentieth centuries.

4341 French Media

Pre-requisite(s): One 3000 level French course or consent of division director.

Current newspaper and magazine articles, recordings of radio broadcasts, and video cassettes are used to increase language skills and understanding of contemporary French culture.

43C0 French Senior Capstone

Pre-requisite(s): Three French courses at the 3000/4000 level and upper-level standing.

The study of a general theme from both a literary and a cultural perspective. Topic varies from year to year.

4V90 Independent Study 1 to 3 sem. hrs.

Pre-requisite(s): Consent of division director.

Independent study in French language or literature in consultation with a professor. Examination and term paper. With content changed, this course may be repeated once for credit.

Freshman Academic Seminar (FAS)

1302 Freshman Academic Seminar: English

Pre-requisite(s): First semester freshman standing.

Introduces first year students to the world of academics and the scholarly community through exploration of a topic of significant cultural/social importance in the area of English. Emphasizes critical inquiry and thinking, research, writing, and problem solving. Substitutes for ENG 1302 automatically only in the College of Arts and Sciences.

1304 Freshman Academic Seminar: History

Pre-requisite(s): First semester freshman standing.

Introduces first-year students to the world of academics and the scholarly community through exploration of topics of significant cultural/social importance in the area of history. Emphasizes critical inquiry and thinking, research, writing, and problem solving. Substitutes for a basic history requirement on certain degrees automatically only in the College of Arts and Sciences.

1305 Freshman Academic Seminar: Social Science

Pre-requisite(s): First semester freshman standing.

Introduces first-year students to the world of academics and the scholarly community through exploration of topics of significant cultural/social importance in the area of social science. Emphasizes critical inquiry and thinking, research, writing, and problem solving. Substitutes for a basic social science requirement on certain degrees automatically only in the College of Arts and Sciences.

1306 Freshman Academic Seminar: Fine Arts

Pre-requisite(s): First semester freshman standing.

Introduces first-year students to the world of academics and the scholarly community through exploration of topics of significant cultural/social importance in the area of fine arts. Emphasizes critical inquiry and thinking, research, writing, and problem solving. Substitutes for a basic fine arts requirement on certain degrees automatically only in the College of Arts and Sciences.

1308 Freshman Academic Seminar: Religion

Pre-requisite(s): Freshman standing and non-REL majors.

Introduces first-year students to the world of academics and the scholarly community through exploration of topics of significant cultural/social importance in the area of religion. Emphasizes critical inquiry and thinking, research, writing, and problem solving. Substitutes for a basic religion requirement (REL 1350) on certain degrees automatically in the College of Arts and Sciences; and for the BBA degree in the School of Business.

1309 Freshman Academic Seminar: Mathematics

Pre-requisite(s): First semester freshman standing.

Introduces first-year students to the world of academics and the scholarly community through exploration of topics of significant cultural/social importance in the area of mathematics. Emphasizes critical inquiry and thinking, research, writing, and problem solving.

1310 Freshman Academic Seminar: The Christian Scriptures

Pre-requisite(s): First semester freshman standing.

A Freshman Academic Seminar: an introduction to the Old and New Testaments (their contents, historical backgrounds and major themes) and to appropriate strategies for interpretation of the Bible. Substitutes for a basic religion requirement (REL 1310) on certain degrees automatically only in the College of Arts and Sciences.

1407 Freshman Academic Seminar: Science

Pre-requisite(s): First semester freshman standing.

Introduces first-year students to the world of academics and the scholarly community through exploration of topics of significant cultural/social importance in the area of science. Emphasizes critical inquiry and thinking, research, writing, and problem solving. Fee: \$50

Geography (GEOG)

1300 World Geography

A description survey of the world's major geographic provinces emphasizing the influence of environment and natural resources on human activity. (3-0)

1310 Cultural Geography (Cross-listed as ANT 1310)

See ANT 1310 for course information.

1404 Physical Geography

Geographic and functional relationships within the physical environment: Earth-Sun relationships, weather, climate, soils, vegetation, and landforms. Weekly laboratory included. Fee: \$50

4316 Geography for Educators

Pre-requisite(s): Upper-level standing and for School of Education majors only.

Orientation to geography as a scholarly discipline, with emphasis on the National Geography Standards, and the five themes of geography. Course explores instructional methods and materials for teaching geography.

Geology (GEO)

1401 Earthquakes and Other Natural Disasters

Survey of the natural disasters afflicting mankind. The course examines the causes and impact upon society of earthquakes, volcanoes, landslides, subsidence, and floods. Weekly laboratory. Students taking GEO 1401 cannot receive credit for GEO 1403 or GEO 1405. Fee: \$50

1402 World Oceans

Introduction to oceanography emphasizing human interaction with the oceans: ocean resources, global environmental ethics, and conflicts resulting from ocean exploitation. One Saturday field trip required. (3-2) Fee: \$50

1403 Environmental Geology

A study of the interaction between people and the geologic environment. Emphasis will be placed on catastrophic geologic processes, earth resources, pollution, and regional planning. Students taking GEO 1403 cannot receive credit for GEO 1401 or GEO 1405. Fee: \$50

1405 The Dynamic Earth

Survey of processes that have shaped the earth, including mountain building, volcanism, deposition of sediments, and landscape development. Plate tectonics integrates all the above into a dynamic theory of the deformation of the earth. Weekly laboratory. Students taking GEO 1405 cannot receive credit for Geo. 1401 or Geo. 1403. Fee: \$50

1406 Earth Through Time

The history of the earth and its inhabitants with emphasis on the processes and principles by which this history is determined. Field trips, including one Saturday, required. (3-2) Fee: \$50

1408 Earth Science

A descriptive survey of the earth sciences including astronomy, geology, meteorology, and oceanography. One Saturday field trip required. (3-2) Fee: \$50

1410 Gems and Minerals

Theory and application of gemology. Topics include crystallography, mineral optics, crystallization conditions, identification, and preparation of gemstones.

1V90 Special Problems

1 to 3 sem. hrs.

Pre-requisite(s): Consent of department chair.

The current understanding of the earth as studied in a lab setting through group experimentation and projects. May be repeated with a change in content or topic. Fee: \$50

3312 Geography of North America

Regional analysis of physical economic, and cultural phenomena in the United States and Canada with emphasis on Texas.

3313 Regional Geology

Pre-requisite(s): GEO 1401, 1402, 1403, 1405 or 1408; and 1406.

A survey of regional stratigraphic, structural, physiographic, petrographic, and mineralogic provinces of the United States. Extensive library research is required. Fee: \$50

3319 Geophysics

Pre-requisite(s): GEO 1401, 1402, 1403, 1405 or 1408.

Introduction to the study of the earth by quantitative physical methods, especially by seismic reflection and refraction, gravity, magnetic, electrical, and radiation methods. Fee: \$75

3325 Earth Materials

A study of mineral and rock groups, their composition, properties, occurrence, and identification. Field trips and laboratory exercises included. Rock, mineral, and fossil collections are required. Fee: \$50

3329 Aqueous Geochemistry

Pre-requisite(s): GEO 1401, 1402, 1403, 1405 or 1408; or consent of instructor.

An introduction to the processes that control the chemical composition of surface and groundwater. Emphasis on the differentiation between natural geochemical processes and human perturbations of the environment. Fee: \$50

3341 Marine Field Studies (Cross-listed as BIO 3341)

Pre-requisite(s): Four semester hours of geology or biology, and consent of instructor.

Field examination of modern marine environments, including coral reefs, lagoons, deltas, and beaches. Individual research projects emphasize geology or biology of coral reefs. Offered during summer session. Fee: \$125

3344 Sedimentary Field Studies

Pre-requisite(s): GEO 1401, 1402, 1403, 1405, or 1408; and 1406.

Field study of modern sediments and ancient sedimentary rocks. Physical and biological features of modern sedimentary environments are examined to provide the basis for interpreting ancient environments in the rock record. Offered during summer session. Fee: \$150

3349 Hydrologic Processes

Pre-requisite(s): Upper-level standing.

Theory and principles of hydrology and hydrogeology focusing on the physical processes: the hydrologic cycle, definitions, equations, streams, flooding, erosion, sedimentation and transport, aquifers, groundwater flow and well hydraulics. One or more local field trips required. Fee: \$50

3365 Applied Petroleum Geoscience

Pre-requisite(s)s: Geo 1405 and 1406

Basic and intermediate concepts related to hydrocarbon origin, migration and accumulation. Review of the design and application of standard analytical techniques and technologies used in hydrocarbon exploration and production. Fee: \$50

3427 Mineralogy

Pre-requisite(s): GEO 1405 (or equivalent) and credit or concurrent enrollment in either CHE 1300 or CHE 1301.

Igneous, Sedimentary, and Metamorphic rocks in hand specimen; crystallography and systematic mineralogy. Occasional field trips. Fee: \$50

3430 Petrology

Pre-requisite(s): GEO 3427 and CHE 1302; or consent of instructor.

Origin and evolution of Igneous, Sedimentary, and Metamorphic rocks. Includes optical mineralogy of principal rock-forming minerals and thin section study of rocks. Required field trip. Fee: \$50

3435 Invertebrate Paleontology (Cross-listed as BIO 3435)

Pre-requisite(s): GEO 1406 or consent of instructor.

Introduction to taxonomy, morphology, evolution, paleoecology and stratigraphic aspects of invertebrate fossils. Emphasis on biostratigraphic and time-stratigraphic concepts, evolutionary trends, speciation, biometrics, facies, faunas, zonation, and correlation. Independent field and lab problems. (3-3) Fee: \$50

3442 Field Stratigraphy-Sedimentology

Pre-requisite(s): GEO 3427 and 3435 or consent of instructor.

Study of sediments and sedimentary rocks in the field. The interpretation of geologic history based on outcrop investigation. Includes numerous written and oral reports, weekly field trips, and occasional weekend field trips. Recommended for junior year. Fee: \$75

3445 Structural Geology

Pre-requisite(s): GEO 1406 and GEO 3430 or consent of instructor.

The structures of the earth's crust; their classification, origin, and economic aspects; methods of discovery of structures; solution of structural problems; elementary field methods. Two field trips are required. (3-3) Fee: \$50

4300 Senior Thesis

Pre-requisite(s): Requires a GPA of 3.25 overall or 3.5 in Geology and consent of the instructor.

Independent research problem. Result will be submitted in proper thesis format with an oral defense. Fee: \$50

4301 Senior Colloquium

Pre-requisite(s): Senior level standing

Readings and presentations that emphasize integration of major core courses in the major. Fee: \$50

4302 Mentored Research Experience

Pre-requisite(s): Pre-requisite(s): Consent of instructor and Senior level standing.

Research in laboratory or field with faculty or graduate student under direction of faculty. Requires a written report to faculty mentor. Fee: \$50

4303 Internship

Pre-requisite(s): Pre-requisite(s): Consent of instructor and Senior level standing.

Supervised work experience in a geology-related position with an outside agency or company. This course will allow undergraduates the chance to experience work in an area of their career interest. Fee: \$50

4312 Oceanography

Physical, chemical, biological, and geological aspects of the oceans with special emphasis on the direct and indirect relationships of humans to the oceans. Such topics as mining the sea and its floor, farming the seas, and influence of the oceans on weather are included. Field trips and laboratory exercises. May not be taken for credit if GEO 1402 has been taken. Fee: \$50

4313 Astronomy

A brief history of astronomy developments followed by a survey of the dimensions, motions, and interrelationships of bodies in our solar system. Additional emphasis is given to galaxies, stellar evolution, and cosmology. (2-1) Fee: \$50

4314 Meteorology

Pre-requisite(s): Upper-level standing or consent of instructor.

Composition of the atmosphere, atmospheric processes, weather disturbances, and climate elements and controls. Emphasis is placed on climate classification and measurements of human inputs into the atmosphere. Fee: \$50

4322 Global Biogeochemical Cycles

Pre-requisite(s): CHE 1301, 1302, 1101, 1102; and BIO 1403; and GEO 1405 and 3427.

The chemistry of the earth's surface. Emphasis on the dynamic chemical and biological reactions on land, in the oceans, and in the atmosphere and their influence upon the global budgets and cycling of carbon, nitrogen, oxygen, and sulfur. Includes field trips.

4325 Economic Mineral Deposits

Pre-requisite(s): GEO 3427 and 3445.

Non-hydrocarbon economic mineral deposits. Origin and migration of ore-bearing fluids; mineralogy and geometry of ore bodies; relations of ore deposits to magnetism and tectonics. Field trip to Central Texas mining district. Fee: \$50

4328 Sedimentary Petrology

Pre-requisite(s): GEO 3427 and 3435 or consent of instructor.

Microscopic and field characteristics of sedimentary rocks. Emphasis on interpretation of depositional and diagenetic environments and relationships between geometry of rock bodies and sedimentary processes. Fee: \$50

4331 Evolutionary History of Plants

Pre-requisite(s): GEO 1406, or BIO 1305 and 1306; and consent of instructor.

The evolutionary history of plants as studied through the fossil record, including preservation, plant morphology and anatomy, and techniques used to reconstruct paleoenvironment and paleoecology. Weekly labs, with one weekend field trip. Fee: \$50

4332 Science Leadership: Community Environmental Research (Cross-listed as ENV 4332)

See ENV 4332 for course information.

4335 Volcanology

Pre-requisite(s): Consent of instructor.

Analysis of volcanic ejecta. Mechanisms of lava and pyroclastic eruptions. Geomorphological analysis of volcanic land forms. History of volcanological studies and case studies of well-known volcanoes. Field trips. Fee: \$50

4336 Analytical Techniques in Geochemistry

Pre-requisite(s): GEO 3427.

Principles and practice of X-ray fluorescence and electron probe analysis of geologic materials. Includes extensive laboratory work. (2-2) Fee: \$50

4337 Paleoecology

Pre-requisite(s): GEO 3435 or consent of instructor.

Relationship of fossil plants and animals to their physical and biological environment. Examination of principles of paleosynecology and paleoautecology; data gathering, analysis, and techniques of interpretation. (2-2) Fee: \$50

4339 Advanced Marine Field Studies (Cross-listed as BIO 4339)

Pre-requisite(s): GEO 3341 or 5333 or BIO 3341.

Continuation of GEO 3341/5333. Field examination of marine environments. Individual research projects emphasize biology and geology of carbonate depositional regimes. Fee: \$50

4340 Geomorphology

Pre-requisite(s): Upper-level standing.

Development and modification of land-surface forms by atmospheric, fluvial, glacial, mass-wasting, volcanic, and tectonic agents. Emphasis is placed on the spatial aspects of landscape evolution. Fee: \$50

4341 Introduction to Hydrology

Pre-requisite(s): Consent of instructor.

Basic applied techniques in surface and ground water hydrology. Surface water hydrology will incorporate analysis of precipitation records, runoff processes, and calculation of flood hazard. Ground water hydrology will emphasize hydrogeology techniques, including simple models of ground water movement. Fee: \$75

4345 Water Management (Cross-listed as ENV 4345)

See ENV 4345 for course information.

4346 Hydrogeology

Pre-requisite(s): GEO 3342 and 3445.

Hydrogeology (ground water hydrology) for geologists and engineers. Topics to be covered include evaporation and precipitation, soil moisture, principles of ground water flow, regional ground water flow, geology of ground water occurrence, flow to wells, ground water chemistry, and ground water development and management. (2-1) Fee: \$75

4348 Geoarchaeology (Cross-listed as ANT 4348)

Pre-requisite(s): Upper-level standing or consent of instructor.

Concepts and methods of the geosciences applied to solving archaeological problems. Emphasis on stratigraphy, soils, climate, dating techniques, site formation, and site preservation related to both New World and Old-World archaeology. Fee: \$50

4361 Petroleum Geoscience Concepts

Pre-requisite(s): Consent of instructor.

Geologic controls on the formation and accumulation of oil and gas, including concepts, equipment, data types and analytical procedures used in exploration and production.

4371 Wetlands (Cross-listed as ENV 4371)

Pre-requisite(s): Upper-level standing or consent of instructor.

Theory and application of the wetland concepts: classification, hydrology, biochemistry, soils, vegetation, construction, regulation, and delineation. Field lab. Fee: \$50

4373 Global Soil Systems (Cross-listed as ENV 4374)

Fundamentals of soil genesis, classification, geomorphology, ecosystems, and environmental interpretation. Includes the role of soil biogeochemical cycles in past, current, and future global change issues. Field lab. Fee: \$50

4375 Natural Landscape Evaluation and Planning (Cross-listed as ENV 4375)

Recognition of natural features that affect human uses. Evaluation of natural landscapes on a scale from complete preservation to full development. Experience in urban landscapes. Includes one or more Saturday field trips.

4386 Remote Sensing (Cross-listed as AVS 4386, BIO 4386, ENV 4386)

Pre-requisite(s): Consent of instructor.

Physical mechanisms of surface and atmospheric materials absorption, transmittance, reflection, and emittance of light measured by various remote sensing platforms. Survey various applications related to earth science, ecology, meteorology, and environmental science. Fee: \$50

4389 Quaternary Geology

Pre-requisite(s): GEOG 1404, GEO 1405, 1406, or 1408; or consent of instructor; and upper-level standing.

An examination through morphologic, stratigraphic, and biogeochemical proxy data of the nature of earth environments, focusing on the three most important components: Quaternary stratigraphies, Quaternary chronologies, and Quaternary environmental proxies and their interpretation. Fee: \$50

4430 Vertebrate Paleontology (Cross-listed as BIO 4430)

See BIO 4430 for course information.

4453 Advanced Three-Dimensional Seismic Interpretation

Pre-requisite(s): GEO 4458 or consent of instructor.

Techniques used to extract geological information from three-dimensional seismic reflection data. Laboratory emphasizing interpretation of real data sets, integration of other geologic and geophysical data, and construction of subsurface maps and sections. Fee: \$50

4455 Introduction to Seismology

Pre-requisite(s): PHY 1420, MTH 2321, and upper-level standing or consent of instructor.

Theory of wave propagation in the Earth, earthquake mechanics, Earth structure, interpretation of seismograms, faults, seismotectonics, earthquake locations, magnitudes, and focal mechanisms. Fee: \$50

4457 Geophysical Exploration I

Pre-requisite(s): GEO 3342 and 3445 and consent of instructor.

Exploration geophysics, using gravity, magnetics, heat flow, telluric currents, resistivity, and other methods of remote sensing of hidden geological phenomena exclusive of seismic exploration. Laboratory work will emphasize geological interpretation of geophysical data. Fee: \$50

4458 Geophysical Exploration II

Pre-requisite(s): GEO 3342 and 3445; and consent of instructor.

Exploration geophysics, using latest seismic techniques and well-log analyses, with emphasis on petroleum exploration. Fee: \$60

4459 Engineering Geology

Pre-requisite(s): Consent of instructor.

Soil and rock mechanics. Analysis of geotechnical problems in the field and lab, report preparation, and computer evaluation of geotechnical problems. (3-4) Fee: \$50

4485 Introduction to Geographic Information Systems (Cross-listed as AVS 4485, ENV 4485)

The course covers the use of GIS to acquire primary geographic data, solve geographic problems, automate geographic analysis, and render explanations for geographic patterns and trends. Students will use the latest GIS software and data layers in a lab section. Fee \$50.

4487 Advanced GIS Analysis (Cross-listed as AVS 4487, ENV 4487)

Principles and techniques for geospatial data collection, manipulation, modeling, visualization, and analysis. Emphasis is placed on current raster modeling techniques, spatial statistical analysis methods, and using GIS as a predictive tool for environmental research. Fee: \$50

4656 Geophysical Field Training

Pre-requisite(s): GEO 4457 or 4458 or consent of instructor.

Practice in the efficient, accurate, and cost-effective acquisition of geophysical data in the field. The course will involve field practice with gravimeters, magnetometers, borehole drilling and logging devices, exploration seismic gear, surface electrical prospecting equipment, physical laboratory models, and digital data processing equipment as specific equipment is available from summer to summer. Field work will be conducted on a weekly schedule of at least five half days, with data reduction taking up the remaining time. Fee: \$125

46C3 Capstone Field Experience

Pre-requisite(s): Consent of instructor.

Includes extended field trip, oral and written reports, sample identification, and design of field problems. Synthesis of undergraduate curriculum through geological mapping and interpretation of field processes. Fee: \$300

4V90 Special Problems

1 to 5 sem. hrs.

Pre-requisite(s): Consent of department chair.

Course may be repeated with a change in content or topic. Fee: \$50

German (GER)

1401 Elementary German

Introduction to the German language and culture: pronunciation, grammar, reading of simple texts and conversation. Fee: \$50

1402 Elementary German

Pre-requisite(s): GER 1401.

Continuation of GER 1401. Fee: \$50

1412 Accelerated Elementary German

Pre-requisite(s): Appropriate score on departmental placement exam or departmental approval.

An intensive course in first-year college German especially for students with two-three years of high school German. Covers the content of GER 1401 and 1402 in only one semester. Fulfills the language requirement only when combined with GER 2310 and 2320 (or the equivalent unless stipulated otherwise). As grammar is reviewed, emphasis is placed on the major skill areas (ACTFL Guidelines): reading, writing, listening, speaking, and cultural awareness. Fee: \$50

2310 Intermediate German

Pre-requisite(s): GER 1402 or 1412, or appropriate score on departmental placement exam, or departmental approval.

Conversation, composition, cultural readings, and grammar review. Fee: \$50

2312 Intermediate German for Business

Pre-requisite(s): GER 1402 or 1412; or appropriate score on departmental placement exam.

Introduction to German business publications and development of communication skills within a business context. This course is designed primarily for students seeking a B.B.A. degree but may be substituted for GER 2310 and used in fulfillment of the foreign language requirement in the College of Arts and Sciences. Fee: \$50

2320 Intermediate German

Pre-requisite(s): GER 2310 or 2312 or appropriate score on departmental placement exam or departmental consent.

Continuation of GER 2310. Fee: \$50

2412 Accelerated Intermediate German

Pre-requisite(s): GER 1402 or GER 1412 or appropriate score on placement exam, and departmental approval.

Intensive course in intermediate German geared towards strong language learners. Content of GER 2310 and GER 2320 in one semester. Emphasis on intermediate-level reading, writing, listening, speaking, and cultural awareness.

3301 German Conversation and Composition

Pre-requisite(s): GER 2320 or appropriate score on departmental placement exam; or departmental approval.

Further development of communication skills. Required of all German majors.

3302 German Reading Development

Pre-requisite(s): GER 2320 or appropriate score on departmental placement exam; or departmental approval.

Development of German reading skills through grammar review and reading of selections from various areas of the arts and sciences.

3311 German Proficiency

Pre-requisite(s): Fourteen semester hours of German (or equivalent of completion of GER 2320).

Systematic review of high-frequency grammar structures, acquisition of new structures, and application of stylistics in a workshop format.

3341 Introduction to German Culture: Germany in the Making

Pre-requisite(s): Upper-level standing.

The history and culture of the German-speaking area, from the Romans to the present day, concentrating on what will become the nation of Germany. Taught in English.

3343 Baylor in Germany: The Dresden Experience

Pre-requisite(s): GER 2310 or consent of instructor.

Culturally-based course in the Baylor in Germany (Dresden) summer program. Emphasizes issues of German and American identities. May not be offered every summer.

3345 Introduction to German Film: German Culture from Berlin to Hollywood

Pre-requisite(s): Upper-level standing.

German culture through German film including cinematic traditions of the Weimar Republic and prominent German directors who emigrated to the United States, Nazi film, post-war cinema in East and West Germany, and the international media context since German unification. Conducted in English.

3352 Modern German Short Prose

Pre-requisite(s): Fourteen semester hours of German.

Emphasis on German short prose fiction of the twentieth century.

3353 German Drama

Pre-requisite(s): Fourteen semester hours of German.

Emphasis on the drama of the nineteenth and twentieth centuries.

3354 German Poetry

Pre-requisite(s): Fourteen semester hours of German.

Survey of the German lyric.

3355 Exploring the German Literary Tradition

Pre-requisite(s): GER 2320 or departmental approval.

The literary tradition of the German-speaking world from 1750 to the 20th century. May be organized around topics chosen by instructor.

3356 Kontext Deutschland

Pre-requisite(s): GER 2320 or equivalent, or consent of instructor.

Social and political events and movements viewed through literature, creating a framework for understanding contemporary Germany and the Germans. Taught in German.

3361 Study Abroad: Advanced Language

Pre-requisite(s): GER 2320 or 2412 or permission from Division Director.

For students taking advanced German language during a summer or semester study abroad program. May be repeated once for credit with different emphases.

3363 Study Abroad: Special Topics in Literature

Pre-requisite(s): GER 2320 or 2412 or permission of Division Director.

For students studying topics in the literature of the German-speaking world during a summer or semester study abroad program. May be repeated once for credit with different emphases.

3365 Study Abroad: Special Topics in Culture Studies

Pre-requisite(s): GER 2320 or 2412 or permission of Division Director.

For students studying topics dealing with the cultural history of or modern life in the German-speaking world during a summer or semester study abroad program. May be repeated once for credit with different emphases.

3367 Study Abroad: Special Topics in Linguistics

Pre-requisite(s): GER 2320 or GER 2412 or permission of Division Director.

For students studying topics in Linguistics pertaining to the German-speaking world, during a summer or semester study abroad program. May be repeated once for credit with different emphases.

3V70 Special Problems

1 to 3 sem. hrs.

Pre-requisite(s): Consent of division director.

With content changed, this course may be repeated once for credit.

4301 Survey of German Literature

Pre-requisite(s): Seventeen semester hours of German including GER 3301 or consent of instructor.

German literature from Old High German to Enlightenment.

4302 Survey of German Literature, continued

Pre-requisite(s): Seventeen semester hours of German including GER 3301 or consent of instructor.

German literature from Enlightenment to Poetic Realism.

4303 Survey of German Literature, continued

Pre-requisite(s): Seventeen semester hours of German including GER 3301 or consent of instructor.

Survey of German literature from Naturalism to the present.

4305 German Literature of the Classical Period

Pre-requisite(s): Seventeen semester hours of German including GER 3301 or consent of instructor.

Masterpieces of the late eighteenth and early nineteenth centuries with emphasis on Lessing, Schiller, and Goethe.

4306 Goethe's Faust

Pre-requisite(s): Seventeen semester hours of German including GER 3301 or consent of instructor.

Faust I and selected readings from Faust II.

4307 German Literature of the Nineteenth Century

Pre-requisite(s): Seventeen semester hours of German including GER 3301 or consent of instructor.

Emphasis on Romanticism.

4308 German Literature of the Nineteenth Century, continued

Pre-requisite(s): Seventeen semester hours of German including GER 3301 or consent of instructor.

Emphasis on Junges Deutschland and Realism.

4309 German Literature of the Twentieth Century

Pre-requisite(s): Seventeen semester hours of German including GER 3301 or consent of instructor.

Varied readings from modern German literature.

4315 Methods of Foreign Language Teaching (Cross-listed with FRE 4315 and SPA 4315)

See SPA 4315 for course information.

4320 Special Topics in German

Pre-requisite(s): GER 3301 and 3302; or consent of instructor.

Special topics of study in the disciplines of German literature, German culture, and/or German linguistics not covered by regular course offerings. The course may be repeated four times when content differs.

4361 Study Abroad: Seminar in Language

Pre-requisite(s): One GER class at the 3000 level or permission of Division Director.

For students taking a more advanced German language class during a summer or semester study abroad program. May be repeated once for credit with different emphases.

4363 Study Abroad: Seminar in Literature

Pre-requisite(s): One GER class at the 3000 level or permission of Division Director.

For students taking a more advanced seminar in the literature of the German-speaking world during a summer or semester study abroad program. May be repeated once for credit with different emphases.

4365 Study Abroad: Seminar in Culture Studies

Pre-requisite(s): One GER class at the 3000 level or permission of Division Director.

For students taking a more advanced seminar dealing with the cultural history of or modern life in the German-speaking world during a summer or semester study abroad program. May be repeated once for credit with different emphases.

4367 Study Abroad: Seminar in Linguistics

Pre-requisite(s): One GER class at the 3000 level or permission of Division Director.

For students taking a more advanced seminar in Linguistics pertaining to the German-speaking world. May be repeated once for credit with different emphases.

4V90 Independent Study

1 to 3 sem. hrs.

Pre-requisite(s): Consent of division director.

Independent study in German language and literature in consultation with a professor. Examination and term paper. With content changed, this course may be repeated once for credit.

Gerontology (GRT)

3305 Introduction to Gerontology (Cross-listed as SOC 3305 and SWO 3305)

See SOC 3305 for course information.

4393 Sociology of Aging (Cross-listed as SWO 4393 and SOC 4393)

See SWO 4393 for course information.

4395 Aging and Mental Health (Cross-listed as SWO 4395 and SOC 4395)

See SWO 4395 for course information.

Global Engagement (GBL)

0301 Recitation

The recitation course is structured as language and study skill support for academic courses in which the students are enrolled. This course is a structured, scheduled academic environment providing the opportunity for students to complete assignments and work closely with their language instructor.

0311 Reading I

The purpose of Reading I is to prepare students for the reading tasks they will face when taking academic classes. In this course students will learn and practice the skills necessary for comprehending academic texts. Readings of different types that cover different topics will be used to develop students' reading comprehension, speed, and vocabulary, as well as writing, listening, and speaking skills.

0312 Writing I

In this course students will learn and apply the writing skills essential for academic success including sentence, paragraph, and basic essay writing. This course is aimed at students planning to study, or are already studying, at university level in English. Course work will focus on planning and writing clear paragraphs and essays, as well as on improving sentence structure, vocabulary, and grammar in written work.

0313 Listening and Speaking I

This course provides short and focused activities to help students improve their English listening and speaking skills. It includes practice in understanding main ideas and key words, phrases and specific sounds to assist students in developing better speaking and comprehension skills. Students will learn and use new vocabulary, pronunciation, and conversation skills while giving academic presentations as well as speaking in small groups.

0314 Grammar I

Grammar I will focus on grammatical structures that enable students to better understand and use academic English. Students will learn and apply grammatical knowledge to express themselves confidently and appropriately in different academic situations, as well as social situations that they might experience while studying in the U.S. Students will learn and practice parts of speech, word forms, clauses, and sentence construction.

0315 Research Skills

Research Skills is an advanced-level course to guide students in the process of conducting undergraduate research at an American university. Students will learn and practice a variety of research and research-writing skills, including citation, documentation, quoting, and paraphrasing, and summarization. Students will also learn why research is needed, the different types of research they might conduct, and why documentation is so vital.

0321 Reading and Writing II

In this course, students develop and apply the reading skills essential for academic learning and inquiry, in the context of authentic academic reading tasks. Students will work to build fluency, comprehension, and vocabulary skills through extensive and intensive reading tasks of increasing complexity. This course will serve as preparation for college composition course and any writing intensive courses.

0323 Listening and Speaking II

In this course students will learn and apply the listening, note-taking, and presentation skills essential for academic learning, inquiry, and communication in the context of authentic academic listening and speaking tasks. Students will work to build fluency, comprehension, and vocabulary skills through extensive and intensive listening tasks of increasing complexity.

0324 Grammar II

This course will focus on high-intermediate grammatical structures that enable students to better comprehend and use academic English. Students will learn to appreciate the relevance of acquiring and applying grammatical knowledge to express themselves confidently and appropriately in different academic situations, as well as social situations relevant to the American college context.

0329 U.S. Culture

US Culture offers students a means for analyzing and evaluating the complex social and moral issues that are specific to the landscape of the United States. As students examine their own cultures and compare them with others, culture shock and cultural conflict may be lessened and appreciation for cultural differences may be strengthened. Students will engage in interactive tasks, including researching and case analysis.

0331 Reading and Writing III

Reading and Writing III is designed to help students read and write academic English and to facilitate development in these skills for success in future university studies. Students will be provided opportunities to analyze and express ideas in academic writings while reading and critiquing the work of others. Students will write essays to become familiar with aspects of conducting research and following APA and/or MLA guidelines.

0333 Listening and Speaking III

In this course students will learn and apply listening, note-taking, and presentation skills essential for academic learning, inquiry, and discourse in the context of authentic academic listening and speaking tasks. Students will work to build fluency, comprehension, and vocabulary skills through extensive and intensive listening tasks of increasing complexity. Students will listen to academic lectures, presentations, and discussions.

0337 Critical Thinking

The purpose of this course is to develop the critical thinking skills needed to interpret and assess arguments and information. This course will highlight the language skills essential for critically analyzing and discussing the quality of the information and opinions presented in authentic texts and listening selections. The course will concentrate on detecting errors of reasoning in short and long passages and evaluating evidence.

0339 Language in Context

Language in Context is an integrated-skills class that uses materials from literature, the internet, and articles on current issues for student reading, writing, presentation, vocabulary building, and discussion. Students will work with a variety of text types and activities that are similar to those used in university courses. In particular, students will be introduced to concepts in humanities and social sciences that may be new to them.

1101 Developing Intercultural Competence

This course is designed to help prepare students for study abroad or international Missions trips by developing knowledge of the destination to be visited along with cultural skills, attitudes and behaviors that will allow for more meaningful engagement while abroad.

1102 Intercultural Competence Abroad

This course is designed to help you engage with your host culture while abroad, and at the same time learn more about yourself and your own cultural values.

1103 Reentry from Study Abroad

This course is designed to help students with reentry into American culture and Baylor University specifically following study abroad or international mission experience. Students will identify and deepen cross-cultural learning gained through study abroad or missions, and apply that knowledge going forward.

1105 Developing Strategic Skills for Global Gateway Students

Developing Strategic Skills for Global Gateway Students introduces new students in the Global Gateway Program to Baylor University, U.S. Higher Education, and study skills that will lead to academic and personal success.

Great Texts (GTX)

1301 Introduction to Great Texts

This interdisciplinary seminar introduces first-year students to the study of Great Texts, focused on a topic of the instructor's choosing. Studies center on texts from multiple genres, ranging from ancient to modern times, and may include texts from the fine arts or performing arts when appropriate. Possible topics could include, for example, narrating happiness, the quests of heroes and martyrs, modes of love and suffering, images of death and dying, stories of gods and God.

2301 The Intellectual Tradition of the Ancient World

Close reading and discussion of foundational texts that establish the parameters of morality, aesthetics, religion, and philosophy.

2302 Medieval Intellectual Traditions: Literature and Thought in Context

Interdisciplinary close reading and discussion of major literary texts in relation to social, philosophical, and theological contexts of historic development in Western cultures from the medieval to the early modern period.

3320 Middle Ages

Pre-requisite(s): Upper-level standing.

An undergraduate seminar in the Great Texts of the Middle Ages. Students will read selections from Anselm, Bonaventure, Roger Bacon, Thomas Aquinas, Dante, Moses Maimonides, Julian of Norwich, Chaucer, and others.

3321 Early Modern Age

Pre-requisite(s): Upper-level standing.

An undergraduate seminar in the Great Texts of the Renaissance, the Reformation, and the early modern age. Students will read selections from Machiavelli, Erasmus, the Protestant reformers and Catholic counter reformation, Montaigne, Cervantes, Shakespeare, Bacon, Donne, Milton, Hobbes, Locke, Vico, and others.

3330 Great Texts by Women

An undergraduate course in seminal texts written or narrated by women of various epochs. Readings may include Sappho, Ban Zhao, Scheherezade, Christine de Pizan, Julian of Norwich, Margery Kempe, Mary Wollstonecraft, Mary Shelley, Jane Austen, Elizabeth Barrett Browning, George Eliot, Kate Chopin, Virginia Woolf, Gertrude Stein, Simone de Beauvoir, Simone Weil, Iris Murdoch, Toni Morrison, and others.

3331 Great Texts in Christian Spirituality

An undergraduate seminar in the great texts of Christian spirituality and devotional literature. Readings may include texts by Origen, Augustine, Athanasius, Maximus Confessor, Richard of St. Victor, Catherine of Siena, Julian of Norwich, Thomas á Kempis, Luther, Traherne, Law, Bunyan, John and Charles Wesley, Kierkegaard, Sayers, Day, Lewis, Chesterton, and others.

3340 Master Works in Art

Pre-requisite(s): Upper-level standing.

Survey and analysis of master works of art, including painting, sculpture, architecture, and photography, in their relationship to the six eras of the Great Texts Seminar Sequence.

3341 Master Works in Drama (Cross-listed as THEA 3341)

Pre-requisite(s): Upper-level standing.

Survey and analysis of a selection of the most important dramatic works of the Western intellectual tradition.

3343 Great Texts in the Origins of Science

Pre-requisite(s): Upper-level standing.

An historical overview of the significant developments in the science of the ancient and medieval periods. Students will read selections from Euclid, Archimedes, Pythagorus, Copernicus, Galileo, and others.

3350 Great Texts in Leadership

An undergraduate seminar devoted to an examination of leaders and the virtues of leadership as found in the Great Texts. Students will read selections from the Bible, Aristotle, Cicero, Plutarch, St. Thomas Aquinas, Pascal, Machiavelli, Dickens, Hardy, Bernanos, Conrad, O'Connor, and others.

3351 Great Texts in Business

An undergraduate seminar devoted to an examination of business, management, and entrepreneurship as presented through some of the great texts of the Western and Eastern traditions.

4320 Eighteenth and Nineteenth Centuries

Pre-requisite(s): Upper-level standing.

An undergraduate seminar in the Great Texts of the eighteenth and nineteenth centuries. Students will read selections from Wollstonecraft, Rousseau, Declaration of Independence, The Constitution, de Tocqueville, Goethe, Austen, Wordsworth, Coleridge, Kierkegaard, Melville, Whitman, Darwin, Stowe, Newman, Mary Shelley, Frederick Douglass, Twain, Nietzsche, and others.

4321 Twentieth Century

Pre-requisite(s): Upper-level standing.

An undergraduate seminar in the Great Texts of the twentieth century. Students will read selections from Yeats, William James, Weber, Freud, Barth, Woolf, Beckett, Faulkner, O'Connor, Lewis, Eliot, Wiesel, Frost, Camus, Solzhenitsyn, Hemingway, Arendt, King, and others.

4330 Dante and the Italian Renaissance

Pre-requisite(s): Upper-level standing.

An undergraduate seminar focusing on the work of Dante Alighieri, especially *The Divine Comedy*. Other writers and artists such as Petrarch, Boccaccio, Catherine of Siena, Bruni, Ariosto, and Machiavelli may be read. Students will read texts in translation but with frequent reference to the Italian.

4331 Augustine and Aquinas

Pre-requisite(s): Upper-level standing.

An undergraduate seminar in the central texts of two of the chief authors of the Western Christian tradition, Augustine and Aquinas. Attention may be paid to predecessors such as Plato, Aristotle, Virgil, or Cicero, as well as to the influence of Augustine and Aquinas upon other thinkers such as Dante, Petrarch, Machiavelli, Descartes, Nietzsche, Joyce, Eliot, and O'Connor. Attention may also be paid to the influence of Augustine upon Aquinas.

4340 Great Works in Music

Pre-requisite(s): Upper-level standing.

Survey and analysis of seminal landmarks of music in their relationship to the six eras of the Great Texts Seminar Sequence.

4341 Great Texts in Modern Science

Pre-requisite(s): Upper-level standing.

An historical overview of the history and development of the natural and social sciences from the Enlightenment to the present. Students will concentrate on the Great Texts of science from Bacon, Vico, Newton, Lavoisier, Darwin, Einstein, Heisenberg, Kuhn, and others.

4343 Great Texts Capstone Course

Pre-requisite(s): Senior standing and Great Text major.

An undergraduate senior seminar culminating in a research project which draws upon the works and texts of the Great Texts curriculum. Students will present and defend their senior projects before student colleagues and a faculty panel.

4351 Confession and Autobiography

Pre-requisite(s): Upper-level standing.

An undergraduate seminar devoted to the genre of confession and autobiography, with a focus on texts that address questions about the kinds of communities, activities and virtues that cultivate true human flourishing. Students will read selections from Augustine, Teresa of Avila, Rousseau, Tolstoy, Henry Adams, John Henry Newman, Dorothy Day, Malcolm X, Will Campbell, Nelson Mandela, Wendell Berry and others.

4371 Epic and Romance in the High Middle Ages

Pre-requisite(s): Consent of instructor.

Explores epic and romance texts from France and England in their native vernaculars. Reading competence in Latin (classical or medieval), French (old or modern), or Middle English required.

4V99 Special Topics in Great Texts 1 to 3 sem. hrs.

Pre-requisite(s): Upper-level standing or consent of instructor.

Research projects to be undertaken by students or by classes under the direct supervision of the professor. Course may be repeated twice with a different topic of study.

Greek (GKB)

1301 Elementary Greek

The basic elements of Classical and Koine Greek grammar and culture, emphasizing both Classical and New Testament authors.

1302 Elementary Greek

Pre-requisite(s): GKB 1301.

Continuation of GKB 1301.

2310 Intermediate Greek I

Pre-requisite(s): GKB 1302.

The Apology, Crito, and Phaedo of Plato; review of inflection and syntax.

2320 Intermediate Greek II

Pre-requisite(s): GKB 1302.

The Acts of the Apostles; review of inflection and syntax.

3301 Homer

Pre-requisite(s): GKB 2310 and 2320.

Selections from the Iliad and the Odyssey.

3302 Greek Historians

Pre-requisite(s): GKB 2310 and 2320.

Selections from Herodotus and Thucydides.

3303 Greek Tragedy

Pre-requisite(s): GKB 2310 and 2320.

Selected plays of Aeschylus, Sophocles, and Euripides.

3351 Advanced New Testament Greek

Pre-requisite(s): GKB 2310 and 2320.

Reading in the Pauline Epistles.

3352 Hellenistic Greek

Pre-requisite(s): GKB 2310 and 2320.

Reading in the literature of the Hellenistic period.

3353 The Septuagint

Pre-requisite(s): GKB 2310 and 2320.

Selections from the Septuagint, chosen to meet the needs and interests of the student.

4301 Readings from Greek Literature

Pre-requisite(s): Consent of instructor.

Greek authors to be read are selected to meet the needs of the student. With content changed, this course may be repeated once for credit.

4308 Greek Prose Composition (Cross-listed as GKC 4308)

See GKC 4308 for course information.

Greek (GKC)**1301 Elementary Greek I**

The basic elements of Classical and Koine Greek grammar and culture, emphasizing both Classical and New Testament authors.

1302 Elementary Greek II

Pre-requisite(s): GKC 1301 or departmental placement.

Continuation of GKC 1301.

2310 Intermediate Greek Prose

Pre-requisite(s): GKC 1302 or departmental placement.

Attic prose readings and selections from the New Testament, with review of inflection and syntax and discussion of the relationship between Classical and Christian texts.

2320 Intermediate Greek Poetry

Pre-requisite(s): GKC 1302 or departmental placement.

Readings in Homer's Odyssey with continued emphasis on Greek inflection and syntax and on the interpretive relationship between Classical and Christian texts.

3302 Greek Historians

Pre-requisite(s): GKC 2310 and 2320.

The principles of Greek historiography emphasizing Herodotus, Thucydides, and other Greek historians.

3303 Greek Tragedy

Pre-requisite(s): GKC 2310 and 2320.

Greek drama, emphasizing Aeschylus, Sophocles, and Euripides.

3305 Classical Rhetoric and the Christian Tradition

Pre-requisite(s): GKC 2310 and 2320.

Selections from Plato, Aristotle, Lysias, Demosthenes, and the Church Fathers which reflect the principles of classical rhetoric and its importance to the theology and preaching of the early church. Attention will also be given to modern homiletics.

3306 Alexander the Great: Reading the Ancient Sources

Pre-requisite(s): GKC 2310 and 2320.

Readings on the life and times of Alexander the Great.

3307 Sicilian Narratives

Pre-requisite(s): GKC 2310 and 2320 or consent of instructor.

Readings in ancient Greek associated with the island of Sicily. Readings will come from authors such as Homer, Euripides, or Thucydides.

3311 Greek Epigraphy

Pre-requisite(s): GKC 2310 and 2320, or consent of instructor.

Epigraphical documents generally comprise those texts incised in durable material-stone, bronze, lead, et cetera. This seminar examines both the contents of those epigraphical documents that survive from Antiquity and the contexts within which they were created. As such, it serves as a general introduction to epigraphical sources and methods, as well as to the ways in which epigraphical information can be used to study ancient society. By offering for study diverse epigraphical examples from various periods of Antiquity, the course will introduce basic bibliography, major collections of documents, research and field methodology (including the study of inscriptions in museums and archaeological sites in mainland Italy and Sicily), and the use of electronic resources available for epigraphical studies.

3351 Advanced New Testament Greek

Pre-requisite(s): GKC 2310 and 2320.

The letter-form, a genre common in Greek and Roman literature and the dominant structural form of the New Testament, as exemplified in the Pauline and General Epistles.

3352 Hellenistic Greek

Pre-requisite(s): GKC 2310 and 2320.

Literature of the Hellenistic period (323 - 31 BC) with additional attention on New Testament backgrounds, in particular Philo and Josephus.

3354 Apocalyptic Literature

Pre-requisite(s): GKC 2310 and 2320.

Apocalyptic literature of the New Testament, including selections from the Gospels, Jude, the Epistles of Peter, the Shepherd of Hermas and the Revelation of John.

4301 Readings from Greek Literature

Pre-requisite(s): Consent of instructor.

Readings from Greek authors including either Classical authors or portions of the New Testament, and related background texts. With content changed, this course may be repeated up to a total of nine semester hours.

4302 Greek Lyric Poetry

Pre-requisite(s): GKC 2310 and 2320.

Readings may include selections from Archilochus, Sappho, Alcaeus, Stesichorus, Anacreon, Simonides, and others.

4303 Homer's Iliad

Pre-requisite(s): GKC 2310 and 2320.

Readings from the Iliad with emphasis on the characteristics of the archaic oral tradition, as the foundation of Greek literature.

4304 Greek Comedy

Pre-requisite(s): GKC 2310 and 2320.

Selected plays of Aristophanes and Menander, emphasizing the style and structure of Greek comedy, and its importance in Greek society for understanding of the comic tradition.

4305 Plato: Selected Writings

Pre-requisite(s): GKC 2310 and 2320 or consent of instructor.

Selected readings in Greek from the writings of Plato. With content changed, this course may be repeated up to a total of six semester hours.

4306 Aristotle: Selected Writings

Pre-requisite(s): GKC 2310 and 2320 or consent of instructor.

Selected readings in Greek from the writings of Aristotle. With content changed, this course may be repeated up to a total of six semester hours.

4307 Readings in Attic Oratory

Pre-requisite(s): GKC 2310 and 2320.

Selections from representative Greek orators, such as Antiphon, Andocides, Lysias, Isocrates and Isaeus.

4308 Greek Prose Composition (Cross-listed as GKB 4308)

Pre-requisite(s): GKC 2310 and 2320, or GKB 2310 and 2320.

Translation of English text into classical Greek.

4309 The Gods of the Greeks

Pre-requisite(s): GKC 2310 and 2320 or consent of instructor; and upper-level standing.

Selected readings in Greek from writings (e.g., Hesiod's Theogony and the Homeric Hymns) dealing with the gods of the Greeks.

4310 Stoics and Epicureans: Reading the Ancient Sources

Pre-requisite(s): GKC 2320 or consent of instructor.

Selected readings in Greek dealing with the Stoic and Epicurean philosophers and their respective philosophical systems.

4351 The Gospels and New Testament Criticism

Pre-requisite(s): GKC 2310 and 2320.

Readings in the Gospels emphasizing the history of New Testament criticism and interpretation. Attention will also be given to the writings of the Church Fathers, as well as to recent methodologies.

4352 The Septuagint

Pre-requisite(s): GKC 2310 and 2320.

The Septuagint as an example of the interaction between the Hebrew, Greek, and Roman worlds.

4353 Lives of the Early Christian Saints

Pre-requisite(s): Greek 2310 and 2320 or consent of instructor.

Selected readings in Greek about the lives of the saints of the early church.

4V01 Readings from Greek Literature

1 to 3 sem. hrs.

Pre-requisite(s): GKC 2310 & 2320 and consent of the instructor.

Greek authors selected to meet the needs of the student. With content changed, this course may be repeated up to a total of nine semester hours.

Health Education (HED)

1350 Dimensions of Health Science Studies

Pre-requisite(s): Health Sciences Studies major only.

This course, mandatory for all Health Science Studies majors, presents essential introductory information to prepare the student for success in determining a field of study and pursuing a healthcare career including knowledge of the healthcare environment, qualifications for pursuing specific fields, professionalism expectations, the importance of communications, cultural competence in healthcare, the use of professional literature, and the basics of healthcare ethics.

3311 Essentials of Ethics in Healthcare (Cross-listed as HP 3311)

See HP 3311 for course information.

3V50 Clinical Research Collaboration (cross-listed as HP 3V50)

1 to 3 sem. hrs.

Pre-requisite(s): Instructor approval.

The purpose of this course is to allow undergraduate Health Science Studies students the opportunity to work with a clinical research professional and participate in the clinical research process.

Hebrew (HEB)

1301 Introductory Hebrew I

An introduction to the orthography, morphology, and syntax of Biblical Hebrew.

1302 Introductory Hebrew II

Pre-requisite(s): HEB 1301.

Continuation of HEB 1301.

2310 Intermediate Hebrew I

Pre-requisite(s): HEB 1302 or its equivalent.

Selected readings in the historic prose of the Old Testament with Hebrew composition.

2320 Intermediate Hebrew II

Pre-requisite(s): HEB 2310 or its equivalent.

Selected readings in the Prophets, Psalter, and Wisdom literature of the Old Testament.

History (HIS)

1305 World History to 1500

Principal civilizations of Asia, Africa, Europe, and the Americas from prehistory to about 1500 A.D., focusing on religious ideas, patterns of economic and cultural development, and artistic and literary achievements of these civilizations, as well as their influences on one another.

1307 World History since 1500

History of major world civilizations and the growth of the modern global community as well as the spread of ideologies and cultures.

2365 History of the United States to 1877

A chronological, thematic, and analytical study of the political, economic, social, cultural, and diplomatic history of the United States from colonial origins and early nationhood through the era of Reconstruction.

2366 History of the United States since 1877

A chronological, thematic, and analytical study of the political, economic, social, cultural, and diplomatic history of the United States from the end of Reconstruction to the present.

2370 History of Warfare

Military conflicts and practices throughout history and around the world with emphasis on broad strategy and tactics.

2380 Introduction to Slavic and East European Studies I (Cross-listed as SEES 2380)

See SEES 2380 for course information.

2381 Introduction to Slavic and East European Studies (Cross-listed as SEES 2381)

See SEES 2381 for course information.

2390 Introduction to Women's and Gender History

Central debates in Women's and Gender History from European, American, and global perspectives. Provides theoretical background and analytical skills for advanced coursework.

2395 Historiography

Pre-requisite(s): Six semester hours of history or consent of instructor.

Historical thought and historiographical practice in the West from their emergence in the classical world to the present.

2V89 Introduction to Model Organization of American States

1 to 3 sem. hrs.

Course prepares students for first-time participation in a Model Organization of American States simulation. Stresses historical and contemporary hemispheric issues. May be repeated for a total of six credit hours under different topics.

3300 Methods of Oral and Public History

Pre-requisite(s): Six semester hours of history or consent of instructor.

Introduction to the diverse settings in which historians work, including historic preservation, heritage tourism, community history, documentary work, museums, historical societies, historical editing, government, and business, and the various approaches they utilize. Also familiarizes students with oral history theory and practice.

3301 Internship in History

Pre-requisite(s): HIS 3300.

Internship at an institution or program engaged in public history. Applies themes, ideas, and issues covered in HIS 3300.

3305 Traditional China (Cross-listed as AST 3305)

Pre-requisite(s): Six semester hours of history or consent of instructor.

A survey of Chinese history from its origins to 1700. Treatment of artistic, cultural, economic, literary, political, social and religious developments in China that have shaped East Asian civilizations.

3307 Japan (Cross-listed as AST 3307)

Pre-requisite(s): Six semester hours of history or consent of instructor.

A survey of the internal and external forces which have affected the development of Japanese civilization from ancient times to the twentieth century. Emphasis upon political, economic, and cultural developments which have shaped modern Japan.

3308 Hitler and the Holocaust (Cross-listed as REL 3348)

Pre-requisite(s): Six semester hours of history or consent of the instructor

The rise of Adolf Hitler and the policies of war and extermination he pursued before and during World War II, as well as the suffering, complicity and responses of Jews and Christians within and after the Holocaust.

3310 The Middle East

Pre-requisite(s): Six semester hours of history or consent of instructor.

A survey of Islamic civilization, especially under the Umayyad, Abbasid, and Ottoman empires; analysis of contemporary national, regional, and international problems with attention to the historical-geographical and political-geographical elements.

3311 Middle East History 600 - 1798

Pre-requisite(s): Six semester hours of history or consent of instructor.

Survey of Middle East history from the rise of Islam to Napoleon's invasion of Egypt in 1798.

3315 History of West Africa

Pre-requisite(s): Six semester hours of history or consent of instructor.

Introduction to West African history, culture, customs, and societies from the earliest times to 1975.

3318 History of Modern Africa

Pre-requisite(s): Six semester hours of history or consent of instructor.

History of Africa since the early nineteenth century and analysis of contemporary African issues in a wider historical context.

3319 Women and Gender in Modern Africa

Pre-requisite(s): Six semester hours of history or consent of instructor.

The social, political, economic, religious, and cultural experiences of women living in Africa from the pre-colonial era to today.

3340 Russia to 1861

Pre-requisite(s): Six semester hours of history or consent of instructor.

A study of the historical, social, cultural, and intellectual currents of Russia.

3342 Russia since 1861

Pre-requisite(s): Six semester hours of history or consent of instructor.

A study of society, literature, history, and politics of the Russian Empire, the Soviet Union, and present post-communist Russia.

3344 History of Modern Germany

Pre-requisite(s): Six semester hours of history or consent of instructor.

A survey of the political, cultural, and economic development of German-speaking Central Europe since the eighteenth century.

3353 Pre-Columbian and Colonial Latin America

Pre-requisite(s): Six semester hours of history or consent of instructor.

A survey of pre-Columbian civilizations in the Americas and an examination of Spanish and Portuguese colonies. Emphasis will be given to Meso-American and Andean civilizations, the creation of colonial society, and the forces leading to the end of political colonialism in Latin America.

3355 Modern Latin America

Pre-requisite(s): Six semester hours of history or consent of instructor.

A survey of the evolution of Latin American countries since Independence. Emphasis will be placed on economic and social factors influencing national development and contemporary issues such as narcoterrorism, the debt crisis, liberation theology, the rights of indigenous peoples, the ecology, and hyper-urbanization.

3360 History of the American Presidency

Pre-requisite(s): Six semester hours of history or consent of instructor.

A survey of the presidency and the presidents. Subjects include backgrounds, parties and elections, ratings of presidents, selected case studies, and the vice presidency.

3362 History of Religion in America

Pre-requisite(s): Six semester hours of history or consent of instructor.

A survey of religion from the period of discovery to the present with emphasis on the diversity of American religion, the origin and development of major denominations, and the interaction of religion and society.

3371 History of Black Americans

Pre-requisite(s): Six semester hours of history or consent of instructor.

A survey of the history of black Americans from their African origins to the present. Emphasis will be given to the economic, social, and political impact of the presence of black people in the American colonies and the United States; attention will be given to the institution of slavery, the emancipation movement, the rise of segregation, black nationalism, and the ideologies and personalities of the civil rights movement.

3380 History of Texas

Pre-requisite(s): Six semester hours of history or consent of instructor.

The political, economic, and social history of Texas in its regional setting in the American Southwest from the period of colonization to the present.

3384 American Indian History

History of American Indians in the area known as the continental United States from the arrival of the first Europeans to the present day.

4300 History of Medicine (Cross-listed as MH 4300 and PHI 4300)

See MH 4300 for course information.

4305 Modern China (Cross-listed as AST 4305)

Pre-requisite(s): Nine semester hours of history or consent of instructor.

A history of China from 1700 to the present that considers cultural, economic, literary, political, social, and religious developments. Emphasis will be given to the late imperial state, the Chinese heritage, decline, conflict with the West, revolution, and modernization.

4312 Modern Middle East History

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Political, religious, intellectual and social transformations in the Middle East during the nineteenth and twentieth centuries.

4313 War and Peace in the Middle East

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The interaction of policy, military force, and society in the waging of war and the quest for peace and security in the Middle East.

4316 The African Diaspora

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The history of peoples of African descent in the Diaspora worldwide.

4322 Ancient Greece

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Culture and institutions of Archaic and Classical Greece to 323 B.C.

4324 Ancient Rome

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Roman Republic and the rise and fall of the Empire to 565 A.D.

4325 The Vikings

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Focuses on Viking life, culture, trade, and migrations from AD 790 to 1100. Includes methods and applications of interdisciplinary research, particularly emphasizing the potential of archaeology to make contributions to historical studies.

4326 Early Medieval Europe, c. 300-1000

Pre-requisite(s): Nine semester hours of history or consent of instructor; and upper-level standing.

Emergence of medieval civilization through the blending of Roman, Christian, and Germanic institutions, customs, and beliefs.

4327 High Middle Ages, c. 1000-1450

Pre-requisite(s): Nine semester hours of history or consent of instructor.

A study of the flowering of medieval civilization, with emphasis on the medieval church and the origins of the modern state.

4328 Medieval Britain

Pre-requisite(s): Nine semester hours of history or consent of instructor; and upper-level standing.

Medieval British history, emphasizing the development of parliament and the common law; the medieval church in the British Isles; the social impact of warfare; the demographic impact of famine and plague in England and Britain.

4329 The Renaissance and Reformation

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The political, economic, intellectual, artistic, and religious upheavals in Europe from the thirteenth through the sixteenth centuries and the resulting social, political, religious, and cultural changes.

4330 Medieval Mediterranean World

Pre-requisite(s): Nine semester hours of history or consent of instructor; and upper-level standing.

The Medieval Mediterranean as a global region, highlighting the various connections and cultural hybridities that linked peoples of Europe, Africa, and "Asia" (now called the Middle East).

4331 European Expansion, 1400-1800

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The development and maintenance of permanent contacts by Europeans with other peoples and cultures around the world between the late Middle Ages and the turn of the 19th century.

4332 Early Modern Europe

Pre-requisite(s): Nine semester hours of history or consent of instructor.

A history of Europe from the age of absolutism to the enlightenment. Emphasis will be upon the major political, economic, social, cultural, scientific, and intellectual developments of the seventeenth and eighteenth centuries.

4333 French Revolution and Napoleon

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Background and history of the French Revolution; relatively brief consideration of the effects of the Revolution and Napoleon upon Europe.

4334 A History of Women in Europe to 1200

Pre-requisite(s): Nine semester hours of history or consent of instructor.

From ancient Greece to the early medieval world, this course examines the status and roles of women in European society--the ideas, customs, and laws that affected the lives of women as well as the roles that women performed. We also explore how women both contributed to European culture and society and were prevented from realizing their full potential.

4335 A History of Women in Europe since 1200

Pre-requisite(s): Nine semester hours of history or consent of instructor.

A study of the status and roles of women in European society from the Crusades through World War I.

4336 Europe since World War I

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Problems of peace making and international organization; rise of Fascism and Communism; background and history of World War II.

4337 Europe from 1815 to 1914

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Political, social, and economic development of the European nations from the Congress of Vienna to the outbreak of the First World War; the rise of liberalism and growth of nationalism; imperialism and the development of international rivalry.

4338 Cultural and Intellectual History of Europe through the Seventeenth Century

Pre-requisite(s): Nine semester hours of history or consent of instructor.

History of ideas and their social and economic background from Classical Greece through the Baroque period. Course includes Greek and Roman philosophy, Early Christianity and Scholasticism, the Renaissance, the Reformation, the Scientific Revolution, and the idea of a mechanistic universe. Considerable emphasis on literature; some attention to art and music.

4339 Cultural and Intellectual History of Modern Europe

Pre-requisite(s): Nine semester hours of history or consent of instructor.

History of ideas and their social and economic background from the Enlightenment to the present. Course includes study of Enlightenment philosophy (Reason, Nature, God, and Man), Romanticism, Democratic theory and Marxism, Idealism, Darwinism, Fascism, and Existentialism. Considerable emphasis on literature; some attention to art and music.

4340 Special Topics in History

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Study in a specialized area of history not covered by regular course offerings. May be repeated once for credit provided topic is different.

4341 Tudor-Stuart Britain

Pre-requisite(s): Nine semester hours of history or consent of instructor; and upper-level standing.

The history of Britain under the Tudor and Stuart dynasties.

4343 France since 1815

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Major topics in French history from Waterloo to the present day, including the Bourbon Restoration, the revolutions of 1830 and 1848, the Second Empire, republicanism, colonialism, the world wars, and Gaullism.

4345 Britain in the Nineteenth Century

Pre-requisite(s): Nine semester hours of history or consent of instructor; and upper-level standing.

The political, social, and economic history of Britain from the end of the Napoleonic War to the beginning of the First World War.

4346 Britain in the Twentieth Century

Pre-requisite(s): Nine semester hours of history or consent of instructor; and upper-level standing.

The political, social, and economic history of Britain from the beginning of the First World War to the end of the first Blair government.

4348 Reading Course in European History

Pre-requisite(s): Nine semester hours of history or consent of instructor.

A tutorial course for undergraduates with intensive study of a given period or topic in European history. The nature and precise limits of the study will be established after consultation between professor and student. No student may take more than one history reading course in a given semester. A maximum of six semester hours of reading courses may apply toward a history major.

4350 The History of Gender in Latin America (Cross-listed as LAS 4351)

Pre-requisite(s): Pre-requisite(s): Nine semester hours of history or consent of instructor; and upper-level standing.

The history of the construction of gender and gender relations from pre-Columbian societies to contemporary Latin America. Special emphasis will be given to the creation of archetypes and the contrast between legal codes and realities across time, race, class and regional divides.

4354 Religion and War in U.S. History

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The dynamic relationship between religion and war throughout American history. Coverage stresses, but extends beyond, the Christian faith and traditions.

4357 Inter-American Relations

Pre-requisite(s): Nine semester hours of history or consent of instructor.

A history of the evolution of Inter-American relations from colonization to the contemporary development of regional economic blocs. Topics will include relations among the American colonies, efforts at unification after independence, the expanding role of the United States in hemispheric relations and the Latin-American reaction, and the evolution of regionalism in the hemisphere.

4358 Reading Course in Global History

Pre-requisite(s): Nine semester hours of history or the consent of instructor.

A tutorial course for undergraduates with intensive study of a given period or topic in Global history. The nature and precise limits of the study will be established after consultation between professor and student. May be repeated once with a change of contents for a total of six credit hours.

4362 American Colonial History

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The settlement, growth, and development of Anglo-American colonies in North America. Topics include models of colonization, the development of American individualism, the creating of Atlantic trading systems, the establishment of colonial, political elites and hierarchies, and the social circumstances of women, blacks, and Indians.

4363 American Revolution and Constitution

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The creation of an American nation out of thirteen colonies. Topics include the social, economic, political, and ideological roots of the colonists' resistance to imperial power, the decisions for revolution and independence, the fighting of the Revolutionary War, the rise and fall of the Confederation, and the drafting and ratification of the Constitution.

4365 The Early Republic, 1789-1860

Pre-requisite(s): Nine semester hours of history or consent of instructor.

An overview of the challenges related to creating the new nation of the United States including political, diplomatic, social, economic, and cultural issues and controversies.

4366 American Legal History to 1877

Pre-requisite(s): Nine semester hours of history or consent of instructor.

A survey of legal and constitutional documents, ideas, cases, and debates, in American history from the colonial era to 1877.

4368 Civil War and Reconstruction

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Causes, military operations, and aftermath of the American Civil War.

4369 Religion in America, 1877-Present

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Religion in America from the end of Reconstruction to the present. Special attention devoted to religion's intersection with culture and politics and to the growth of religious pluralism in America.

4371 United States, 1877-1920

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Major economic, social, and political developments in the United States within the prescribed chronological limits, with secondary emphasis on the rise of the United States as a world power and its involvement in World War I. Primary emphasis given to industrialization, the farmer revolt, the Progressive Movement, and the ramifications of these events in politics and society.

4374 United States since 1920

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Continuation of HIS 4371 with emphasis on the post-Progressive decade, the Great Depression, the New Deal, and domestic developments since the New Deal. Of secondary emphasis is the coming of World War II and the consequent rise and development of the Cold War.

4375 The American Civil Rights Movement

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The origins, major events, and legacy of the struggle to gain full equality for African Americans in the century following the American Civil War. Emphasis on the philosophies and strategies employed to realize full citizenship rights for blacks, individual and institutional leadership, the participation of women, the role of religion, and the impact of this social justice movement on the South, the United States, and the world. (Graduate students may not receive credit for both HIS 4375 and HIS 5375.)

4377 History of the American Woman, 1600-1865

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Women's history in America from the colonial period to the end of the Civil War, emphasizing the changing roles of women and their contribution to and participation in American society.

4378 History of the American Woman Since 1865

Pre-requisite(s): Nine semester hours of history or consent of instructor.

A social, political, and economic survey of women in the United States from the end of the Civil War to the present, emphasizing the women's movement and its influence on American society.

4379 The Cold War (Cross-listed as SEES 4379)

Pre-requisite(s): Nine semester hours of history or consent of instructor.

History of global conflict between the United States and the Soviet Union from 1941 to 1991 including cultural, social, economic, political, and religious aspects.

4380 The American West

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The frontier in American history from early colonial times to the end of the nineteenth century, with emphasis on the significance of the frontier in American history and historiography.

4383 History of the South

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Southern culture with three topics in the ante-bellum period and three topics in the post-bellum period.

4385 The United States in the 1960s

Pre-requisite(s): Nine semester hours of history or consent of instructor.

The political, economic, social, cultural, and diplomatic development of the United States in the 1960s.

4386 The City in American History

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Emergence, expansion, and impact of urban growth in America from colonial times to the present. Emphasis given to the mechanics of city building, the social, economic, political, and cultural dimensions of urban development and the changing image of the city in the minds of the American people.

4388 American Environmental History (Cross-listed as ENV 4389).

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Investigation of the physical, social, cultural, and economic relationships between humans and their environment in America from pre-contact to the present.

4392 American Foreign Relations since 1919

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Role of the United States as a great power, with emphasis upon the changing attitudes toward world affairs.

4393 American Military History to 1865

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Major military conflicts in North America from European exploration through the American Civil War.

4394 American Military History from 1865

Pre-requisite(s): 9 semester hours of history or consent of instructor.

Major military conflicts in United States history since the Civil War.

4395 History of American Thought, 1630-1859

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Enduring beliefs about and attitudes toward the world and themselves held by Americans. Emphasis on patterns of beliefs as bases for assurance and commitment. From Puritans through transcendentalists.

4396 History of American Thought, 1859 to Present

Pre-requisite(s): Nine semester hours of history or consent of instructor.

Beliefs Americans have relied on to define and comprehend the world and themselves. Emphasis on what Americans needed and were able to believe in their search for assurance from the naturalism of the Gilded Age to the personal experiential quest of the present.

4398 Reading Course in American History

Pre-requisite(s): Nine semester hours of history or consent of instructor.

A tutorial course for undergraduates with intensive study of a given period or topic in American history. The nature and precise limits of the study will be established after consultation between professor and student. No student may take more than one history reading course in a given semester. A maximum of six semester hours of reading courses may apply toward a history major.

4V89 Advanced Model Organization of American States (Cross-listed as PSC 4V89)

1 to 3 sem. hrs.

Pre-requisite(s): HIS 2V89.

Course prepares advanced students for leadership roles in a Model Organization of American States simulation. May be repeated for a total of six credit hours under different topics.

Honors (HON)

3100 Advanced Readings & Research

Advanced readings and research toward an Honors thesis. The course is conducted under the direction of a faculty mentor from the student's major department, concentration, or area of research.

3101 Advanced Readings & Research

Pre-requisite(s): HON 3100 or concurrent enrollment.

Continuation of HON 3100, as well as participation in proseminars on thesis research and writing. Includes submission of a formal thesis proposal.

3200 Colloquium

Informal group discussion of important books and issues in various branches of knowledge under the direction of faculty members or others who are specialists in the area of discussion.

3201 Colloquium

Pre-requisite(s): HON 3200.

Continuation of HON 3200.

3455 Research Design

Pre-requisite(s): Upper-level standing.

Within the context of providing Honors students the architecture of laboratory, clinical, and social science research, this course has the goals of: introducing an epistemological and methodological strategy for students to conduct scientific research; enabling them to conceptualize and plan their Honors Thesis; facilitating the student's beginning work with their faculty mentor; and requiring the participants to write the initial draft of their first four chapters of their Honors Thesis - Introduction, Review of Literature, Methodology, and Hypotheses.

3V70 Readings in the Honors Program

1 to 4 sem. hrs.

Pre-requisite(s): Upper-level standing.

Material selected will serve needs of students within the Honors Program. With content changed, this course may be repeated once for credit.

4088 Honors Exit Review

Pre-requisite(s): Credit or concurrent enrollment in HON 4V87.

Students complete the Honors Exit Review course during their final semester. They will receive a grade of Credit once they have submitted all necessary paperwork and completed all other steps necessary to graduate from the Honors Program.

4V87 Honors Thesis**1 to 4 sem. hrs.**

Pre-requisite(s): Credit or concurrent enrollment in HON 3101.

Students complete Honors Thesis while conducting research and writing their thesis. The course is supervised by a faculty member in the student's major department or concentration. As a variable hour course, HON 4V87 may be completed for 1-4 hours of credit during a given semester depending upon the consent of the instructor and approval from the Honors Program. Typically, students will register for two hours of Honors Thesis during their penultimate semester and two final hours during their last semester.

Human Performance (HP)**Required Courses Major (HP)****1101 Theory and Practice in Gymnastics**

Pre-requisite(s): Departmental consent required.

An introductory skill course beginning with educational gymnastics and progressing to Olympic gymnastics. Fee: \$50

1102 Theory and Practice in Track and Field

Pre-requisite(s): Department consent required.

An introductory skill course in track and field meeting during the spring semester of the freshman year. Fee: \$50

1103 Theory and Practice in Dance

Pre-requisite(s): Departmental consent required.

A comprehensive skills course in the fundamentals of dance. Included are folk, aerobic, and modern dance skills. Fee: \$50

1108 Elementary School Physical Activities

This is an activity course for students interested in working with elementary age students. It is designed to introduce Baylor students to developmentally appropriate activities for elementary age children in the areas of fundamental skills, perceptual motor skills, games and sports skills, rhythmic activities and gymnastic skills. Through the context of movement, students will be exposed to the techniques, behaviors and approaches used by effective elementary physical education teachers.

1144 Theory and Practice in Tumbling and Dance

Pre-requisite(s): Departmental consent required.

A course designed to develop fundamental skills in tumbling and dance (folk, modern and aerobic) and to introduce students to the responsibilities of a cheerleader and/or drill team sponsor. Fee: \$50

1201 Driver Education and Training

A comprehensive driver education course covering all aspects of driving-learning to drive, traffic laws, mechanics of driving, the automobile, proper driving attitudes, and defensive driving. Upon successful completion of course requirements, students receive a Driver Training Certificate for insurance purposes. Fee: \$50

1202 First Aid (Cross-listed as RLS 1202)

Pre-requisite(s): For RLS 1202: RLS majors only; for HP 1202: no Pre-requisite(s) required.

A course designed to teach the knowledge and techniques of first aid and emergency procedures. A Red Cross Standard First Aid Certificate is granted on completion. Fee: \$50

1233 Red Cross Water Safety

Pre-requisite(s): Departmental approval required.

The most advanced aquatic course offered for certification by the American Red Cross. Pre-requisite(s)s include prior certification in CPR and either Emergency Water Safety or Life Guarding. This course includes a review of swimming and lifesaving skills, analysis and remediation of stroke mechanics, lesson planning, classroom management, and teaching technique for the aquatic environment. Fee: \$50

1236 Dance Choreography

Pre-requisite(s): A minimum grade of C in HP 1103 or LF 1106 or consent of instructor.

See required courses for the major. Fee: \$50

1420 Human Anatomy

Pre-requisite(s): Bachelor of Science in Education (BSED), Bachelor of Science in Athletic Training (BSAT), or Bachelor of Science in Public Health degree students only.

An introductory course designed to teach the basic life systems in the human body. Detailed examination of the circulatory, muscular, skeletal, respiratory, and endocrine systems will be emphasized. Fee: \$50

1421 Introduction to Human Physiology

Provides the scientific foundation for the field of medicine, exercise physiology and all professions related to human health. Basic chemical and biological concepts will provide students the framework to comprehend physiological principles. Fee: \$50

2102 Fitness Concepts and Testing Procedures

The acquisition of essential skills and knowledge in fitness education that lead to excellent physical conditioning and the ability to administer a variety of fitness tests. Students must demonstrate specified levels of physical fitness to complete the course. Fee: \$50

2304 Advanced First Aid

Acquisition of skills and knowledge to qualify for Advanced First Aid certification through the American Red Cross or equivalent agency. Additional material in emergency care from a supplementary text is included. Practical application skills are performed. Fee: \$50

2306 Anatomical Kinesiology

Pre-requisite(s): A minimum grade of C in HP 1420.

A course designed to develop an understanding of human movement through the study of neuromuscular control, anatomical structures, and mechanical principles. Fee: \$50

2307 Biomechanics

An overview of the principles and methods of analyzing human movement from a mechanical and quantitative perspective. Fee: \$50

2309 Medical Conditions and Pharmacology

Pre-requisite(s): HP 2340 and HP 2342. Athletic Training Majors Only.

This course covers the evaluation and prevention of the most common medical conditions. It also covers medications commonly encountered in the practice of physical medicine. It will include categories of drugs; generic and trade names of common drugs; the use, effects and precautions of common drugs; and drug-drug-interactions and pharmacokinetic principles.

2341 Prevention and Care of Athletic Injuries

Pre-requisite(s): A minimum grade of C in HP 1420.

The course is designed to teach the basic athletic training needs, to teach fundamental skills and methods in athletic training, and to train an individual to take care of both injured and uninjured athletes. Fee: \$50

2409 Emergency Medical Technician - Basic

Pre-requisite(s): Departmental consent required.

This is a Texas Department of Health approved course leading to state certification as an Emergency Medical technician. The class requires classroom and field studies in applicable skills and environment. National Registry Exam available on completion. Fee: \$80

2420 Exercise Physiology

Pre-requisite(s): A minimum grade of C in HP 1420. Bachelor of Science in Education and Bachelor of Science in Athletic Training degree students only.

This course provides lecture and lab experience in that aspect of sports medicine which involves the study of the body's response, adjustments, and adaptations to exercise. Fee: \$50

3136 Innovative Games and Adventure Activities

Designed to assist the student in studies of the mechanics and techniques of each activity. Includes the skills, rules, principles and purposes of each activity. First semester sophomores and above are eligible to enroll in this course. Fee: \$50

3300 Pedagogy of Team Sports

This course is designed to provide practice in teaching skills, to increase knowledge of games and difference sports rules, and to develop an appreciation for the basic skills in a variety of team sports. First semester sophomores and above are eligible to enroll in this course. Fee: \$50

3301 Pedagogy of Individual Sports

This course is designed to provide practice in teaching skills, to increase knowledge of the games and different sports rules, and to develop an appreciation for the basic skills in a variety of individual sports. First semester sophomores and above are eligible to enroll in this course Fee: \$50

3302 Pedagogy of Dance

Pre-requisite(s): LF 1118 and 1148; or LF 1119.

Course includes history, pedagogy, curriculum design, music selection, costuming, creative activities, and dance resources. Field experience includes observation, journal entries, and assisting in a dance environment. Fee: \$50

3311 Essentials of Ethics in Healthcare (Cross-listed as HED 3311)

Pre-requisite(s): REL 1310 and REL 1350.

This course presents students with the opportunity to explore current healthcare ethical dilemmas, consider bias, and participate in the formulation of Christian responses in difficult healthcare situations. REL 1310 The Christian Scriptures and REL 1350 The Christian Heritage are Pre-requisite(s)s.

3320 Fundamentals of Exercise Biochemistry

Pre-requisite(s): Upper-level standing. Credit or concurrent enrollment in HP

2420. Bachelor of Science in Education/Bachelor of Science in Athletic Training (BSED/BSAT) degree students only.

An overview of biochemistry and metabolism related to exercise, training adaptations, and nutrition.

3330 Research Methods and Design in Exercise Science

Pre-requisite(s): For Bachelor of Science in Education, Bachelor of Science in Athletic Training degree students only.

Introduction to research methods in exercise science including research designs, collection of data with appropriate statistical techniques, as well as the critique of peer reviewed research.

3346 Elementary School Physical Education

Pre-requisite(s): Elementary education majors and sophomore standing or above or permission from HP program director.

This course is designed for elementary education majors (EC-6 Generalist) and for those interested in working with young children. Students are introduced to the techniques and approaches used by effective physical education teachers as they design and implement elementary physical education programs. Class time is spent in the classroom, the gym, and in local schools exploring how children learn motor skills and adopt physically active lifestyles.

3368 Adapted Physical Education

Pre-requisite(s): Upper level standing.

A study of the theory of corrective human performance with special emphasis on the analysis of movement and postural deviations and the choice of and application of exercises and activities for their correction.

3369 Perceptual Motor Skills Development

Pre-requisite(s): A minimum grade of C in HP 3346; and upper level standing.

This course will identify normal developmental sequences and performance patterns of primary and intermediate age children. The emphasis will be the correlation of this information with skills.

3381 Fundamentals of Human Performance

Pre-requisite(s): Upper-level standing.

This course examines the goals, objectives, and evaluation of exemplary programs.

3382 Risk Management in HHPR (Cross-listed as RLS 3382)

Pre-requisite(s): Junior level standing; RLS 3382 for RLS majors only.

Course explores the legal principles and rules of laws affecting administration and operation of health, physical education, recreation, sports programs, resources, areas, and facilities. Risk management and legal concepts are applied to contracts, human rights, property, products liabilities, negligence, and torts.

3V50 Clinical Research Collaboration (cross-listed as HED 3V50)

1 to 3 sem. hrs.

See HED 3V50 for course description.

3V79 Seminar in HHPR

1 to 6 sem. hrs.

4301 Choreography and Production

Pre-requisite(s): LF 1118 and 1148; or LF 1119.

This course is designed to enhance a student's performance skills in modern, ballet, and jazz dance. "Choreography" will include original routines using music selection, development of choreography, costuming, lighting, peer teaching, and written step instructions. "Production" will include performance in class as well as experience in production of a show at the end of the semester. Fee: \$50

4352 Exercise and Sport Nutrition

Pre-requisite(s): HP 2420 and upper-level standing or consent of instructor.

An overview of the role of nutrition as a means to enhance health and performance in exercise and sport. Topics to be covered include principles of healthful nutrition, energy metabolism, and nutrients, regulation of metabolism by vitamins and minerals, weight control, and analysis of the validity of proposed nutritional ergogenic aids.

4354 Techniques of Strength Training and Conditioning

Pre-requisite(s): HP 2306 and 2420.

This course is to study current principles and procedures essential to strength training and conditioning practices. Emphasis is placed on the development and practical applications of aerobic conditioning, joint flexibility, muscular strength, power, and endurance programs. Fee: \$50

4363 Philosophy, Principles, and Administration of Human Performance (Cross-listed as EDL 4363)

Pre-requisite(s): Upper-level standing.

Understanding of the fundamental principles and philosophy of human performance as they relate to program development, methodology, organization, and administration. Historical concepts, objectives, and purposes of human performance are also emphasized.

4368 Motor Learning and Development

Pre-requisite(s): Upper level standing.

Skill learning and skill performance, covering the gradual development of human physical abilities over the centuries. The states of an individual's development from childhood to maturity will be studied. Included are factors affecting physical development, the nature of the learning process, and the methods suitable for both the early states of skill learning and the advanced skill levels.

4369 Sports Psychology

Pre-requisite(s): Upper-level standing.

Examines psychological theories and techniques applied to sport to enhance the performance and personal growth of athletes and coaches. Lecture with an emphasis on discussion. The course is designed to help both present and future coaches to use sound psychological principles to be more effective. Emphasis is given to understanding personality, motivation, confidence, discipline, imagery use, psyching techniques, relaxation training, anxiety and choking, attention and concentration, the psychology of injury and rehabilitation, and clinical issues common in athletics.

4370 Successful Coaching

Pre-requisite(s): Upper-level standing.

The course is designed to provide a foundation in the practical application of sport science and management. Specifically, the class will address the sport psychology, sport pedagogy, sport physiology and sport management aspects of successful coaching. A 20-hour field-based experience with a middle or high school sports team is required.

4372 Sociology of Sport (Cross-listed as SOC 4311)

Pre-requisite(s): Upper-level standing.

A course that studies the interaction of various social influences such as the mass media, economics, race, gender, religion, group behavior, politics, and education on sport.

4375 Exercise Prescription in Health and Disease

Pre-requisite(s): HP 4450

This course will enable the student to apply the skills learned to writing exercise prescriptions for healthy and diseased populations. Emphasis will be given to developing exercise programs for individuals with chronic diseases and disabilities.

4384 Qualitative Analysis of Human Movement

Pre-requisite(s): A minimum grade of C in HP 2306 and upper level standing.

Advanced instruction in qualitative analysis of human movement, with training in methods of perceiving and measuring errors of movement in a variety of environments (teaching, coaching, and clinical evaluation).

4393 Facilities and Equipment in HHPR (Cross-listed as RLS 4393)

Pre-requisite(s): Upper level standing.

Structural standards, operation, maintenance, function, design, and planning of human performance and recreation resources, areas, and facilities; and the selection, purchasing, and care of equipment appropriate to these programs and services.

4396 Religion and Sport (Cross-listed as REL 4396)

See REL 4396 for course information.

4398 Sports-Related Ethics (Cross-listed as REL 4398)

Perspective of the Judeo-Christian tradition of the moral concerns related to sports in American society. Various dimensions of the organized sports phenomenon, including those at the youth, secondary school, intercollegiate, and professional level. This course will not be accepted for credit toward a major or minor in religion or toward the six-hour religion requirement by the University.

4450 Exercise Testing and Interpretation I

Pre-requisite(s): Pre-requisite(s): HP 1421, Credit or concurrent registration in HP 2420; Current First Aid and CPR Certification.

Lectures will address the principles of common physical assessments used in clinical and fitness settings, the selection of appropriate assessments, results interpretation and the application of assessment results for exercise prescription and chronic disease risk reduction. Laboratory experiences are designed to develop competencies in physical assessment and results interpretation. Fee: \$50

4471 Exercise Testing and Interpretation II

Pre-requisite(s): Pre-requisite(s): HP 4450, Current First Aid and CPR Certification.

Lectures and laboratory experiences build on information covered in HP 4450. This course is designed to develop and refine core competencies in conducting common physical assessments and interpreting results for exercise prescription and chronic disease risk reduction. Laboratory experiences include student engagement in comprehensive health and fitness profiles. Fee: \$50

4V79 Internship in Human Performance

1 to 6 sem. hrs.

Pre-requisite(s): Departmental consent required.

The internship provides hands-on experience for the human performance major in the area of his or her concentration. The experience includes a special project determined jointly by the student and the agency intern supervisor.

Integrated Science (ISCI)

2410 Integrated Science: Physics, Earth & Space Science

Pre-requisite(s): Elementary Education Major or consent of instructor.

Prepares students to convey concepts in physics, earth, and space science. Contains integrated lab component. Fee: \$50

2420 Integrated Science: Chemistry & Life Science

Pre-requisite(s): Elementary Education Major or consent of instructor.

Prepares students to convey concepts in chemistry and life science. Contains integrated lab component. Fee: \$50

Interior Design (ID)

1313 Interior Design Graphics I

Pre-requisite(s): Interior Design majors or consent of instructor.

Introduction to basic techniques of architectural drafting with an emphasis on industry standards, architectural symbols, lettering, and line weights. Graphics will focus on interior floor plans, elevations, sections, details, and axonometric drawings. (2-4) Fee: \$60

1332 Introduction to Interior Design

The elements and principles of design; their theories and applications related to the built environment, including programming, spatial relationships, materials and components, design styles, sustainability, and universal design; and an overview of the profession. (2-2)

2314 Interior Design Graphics II

Pre-requisite(s): A minimum grade of C in ID 1313.

Perspective drawing as it relates to interior design with an emphasis on one and two-point perspective techniques (both technical and free-hand). Advanced section and axonometric drawings. (2-4) Fee: \$60

2315 Building Systems and Codes for Interiors

Pre-requisite(s): A minimum grade of C in ID 1313 and 1332 or consent of the instructor.

Study of building systems and methods, materials, and environmental issues associated with construction; building codes, standards, regulations, life safety, sustainability, and accessibility guidelines and their impact on the design of the built environment. (3-0)

2316 Interior Design Graphics III

Pre-requisite(s): A minimum grade of C in ID 2314; ART 1310 and 1314 or concurrent enrollment.

The visual presentation technique of color rendering in various graphic and design media with emphasis on color theory. Advanced perspective techniques. (0-6) Fee: \$60

2317 Space Planning

Pre-requisite(s): ID 1313.

Introduction to Interior Design space planning techniques, based on the principles and elements of design. The course will use modeling (both digital and physical) to increase the understanding of spatial relationships with an emphasis on ergonomics, anthropometrics and proxemics. Fee: \$60

2318 ID Digital Presentation Techniques

Pre-requisite(s): ID 2314.

Introduction to digital presentation techniques and graphic software programs that aid with the development of digital presentation boards. Composition, color and print quality will be emphasized.

2320 Building Materials and Finishes for Interiors

Pre-requisite(s): A minimum grade of C in ID 2314, 2315 and credit with a minimum grade of C or concurrent enrollment in ADM 2310. ART 1314 recommended.

General analysis, selection, estimation, and application of materials and finishes in the design of components of the built environment including testing standards, specifications, color theory, textile applications, and cultural and global influences. (2-4) Fee: \$60

2322 Computer-Aided Drafting and Design I

Pre-requisite(s): A minimum grade of C in ID 1313.

Emphasis on a broad range of two-dimensional computer-aided drafting and design techniques for interiors as specified by industry standards, including computer graphics and various aspects of project management. (2-4) Fee: \$60

3198 Internship Seminar

Pre-requisite(s): A minimum grade of C in ID 3318 or concurrent enrollment.

Study and preparation for the internship experience. Application of professional skills related to various forms of written communication, interview techniques, and ethics. Portfolio design and development. (1-0)

3313 History of Interiors I

Survey of architectural styles, interiors, furnishings, and the decorative arts related to major cultures from antiquity through the early 19th century. (3-0)

3317 Lighting for Interiors

Pre-requisite(s): A minimum grade of C in ID 2314.

Technical and psychological aspects of the illumination of interior environments that support human performance, environmental issues, aesthetic appeal, and the health, safety, and welfare of the user. (3-0)

3318 Interior Design Studio I

Pre-requisite(s): A minimum grade of C in ADM 2310, ID 2320, 2322, and credit with a minimum grade of C or concurrent enrollment in ID 3317. Successful completion of Sophomore Portfolio Review. ID 3313 and 4313 recommended.

Application of design components for residential environments. Development of the design process with emphasis on research and programming, human behavior, lifestyle concerns, environmental issues, special needs populations; and consideration of cultural, regional, and geographic influences. Includes material/finish specifications, budget application and team-based design solutions. (0-6) Fee: \$120

3322 Computer-Aided Drafting and Design II

Pre-requisite(s): A minimum grade of C in ID 2322.

Emphasis on three-dimensional computer-aided drawing techniques for interior design and presentation, using BIM (Building Information Modeling) software. (2-4) Fee: \$100

3326 Interior Design Studio II

Pre-requisite(s): A minimum grade of C in ID 3317, 3318 and credit with a minimum grade of C or concurrent enrollment in ID 3322.

Application of design components for small-scale commercial projects, with emphasis on research, programming, conceptual development, creative problem solving, building codes, life safety, environmental issues, and universal design. Includes estimation, specification, and applications of materials/finishes, lighting applications, and team-based design solutions. (0-6) Fee: \$120

4123 Interior Design Research Methods

Pre-requisite(s): A minimum grade of "C" in ID 3326.

Introduction to methods and techniques of interior design research. Students develop a research framework which they will apply to the design of their capstone project the following semester. Various types of qualitative, quantitative, and historical methods of design research will be discussed.

4313 History of Interiors II

Pre-requisite(s): Upper-level standing.

Survey of architectural styles, movements, influences, interiors, furnishings, and the decorative arts from the mid-19th century to the present in Europe and America. Strong emphasis on 20th-century masters. (3-0)

4318 Interior Design Studio III

Pre-requisite(s): A minimum grade of C in ID 3326 and credit with a minimum grade of C or concurrent enrollment in ID 3322.

Application of design components for large-scale commercial projects including open office systems, with increased emphasis on thorough research and programming, conceptual development, creative problem-solving, application of building codes, environmental issues, and universal design. Includes estimation, specification, and application of material/finishes, lighting applications, and team-based design solutions. (0-6) Fee: \$120

4320 Business Practices and Procedures for Interior Design

Pre-requisite(s): A minimum grade of C in ID 4318 or concurrent enrollment.

Business practices and procedures, ethics, project coordination, licensure, and legal aspects related to the interior design profession. (3-0)

4333 Interior Design Studio Ib (Capstone)

Pre-requisite(s): A minimum grade of C in ID 4318 and 4320.

A comprehensive capstone studio that will provide an advanced integrative application of the design process resulting in complex design solutions and complete project documentation. Final portfolio presentation required. (0-6) Fee: \$110

4398 Interior Design Internship

Pre-requisite(s): A minimum grade of C in ID 3198 and 3326. ID 3322 recommended.

Supervised internship in an approved design-related work environment. Minimum of 240 hours.

International Business (INB)**3305 Global Business**

Pre-requisite(s): Junior standing.

An introductory survey for all majors, exploring how companies and nations operate in the global economy. Topics include the cultural, legal, financial, logistical, and ethical challenges that companies encounter in the global market and the strategies designed to address those challenges. Current global developments and company practices are emphasized.

3332 Business in the Global Economy

Pre-requisite(s): A minimum grade of C in ECO 1380 or a minimum grade of C in ECO 2306 and ECO 2307; junior standing; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

An overview of the global economy, with an emphasis on how current developments affect international business. A brief history of foreign trade, basic international trade theory, instruments of trade policy and their economic effects, trade policies for developing nations, regional economic integration arrangements, balance of payments, and foreign exchange markets. A student may not earn credit in both ECO 3331 and INB 3332.

3333 Doing Business Across Cultures

Pre-requisite(s): Junior standing.

A practical survey for all majors of how business practices vary across different cultures. Ways of doing business are compared and contrasted on a regional basis, including cultures in Europe, Asia, the Middle East, and Latin America. Case discussion is emphasized.

3350 International Entrepreneurship (Cross-listed as ENT 3350)

See ENT 3350 for course information.

4320 International Business Law (Cross-listed as BL 4320)

See BL 4320 for course information.

4325 International Marketing (Cross-listed as MKT 4325)

See MKT 4325 for course information.

4331 International Business Finance (Cross-listed as FIN 4331)

See FIN 4331 for course information.

4333 Foreign Exchange Markets (Cross-listed as ECO 4333)

See ECO 4333 for course information.

4334 Economic Development (Cross-listed as ECO 4334)

See ECO 4334 for course information.

4335 Asian Economic Development (Cross-listed as AST 4335 and ECO 4335)

See ECO 4335 for course information.

4338 Economic Systems of the World (Cross-listed as AST 4338 and ECO 4338)

See ECO 4338 for course information.

4340 Studies in the Caribbean Region

Pre-requisite(s): Sophomore standing or above; BBA students must be admitted to the Business School in order to take this course.

This course is conducted in the Dominican Republic as part of the Baylor in the Dominican Republic program, which allows undergraduate students to experience life in the Caribbean region first-hand. Students will study the social, cultural, historical, economic, and political issues that impact businesses in the Dominican Republic and the general environment in which they operate. Students will visit a variety of enterprises and consider the dynamics of participation in the economy and society of a Caribbean nation.

4345 Global Trade Compliance (Cross-listed as BL 4345)

See BL 4345 for course information.

4378 International Accounting (Cross-listed as ACC 4378)

See ACC 4378 for course information.

4398 Special Studies in International Business

Pre-requisite(s): Consent of instructor; not open to pre-business students.

Independent study under the direct supervision of an international business faculty member.

4V98 Special Studies in International Business 1 to 6 sem. hrs.

Pre-requisite(s): Consent of instructor and Chair of International Business; not open to pre-business students.

With the permission of the chair of International Business, this course may be taken for one to six hours of credit.

Italian (ITA)

1401 Elementary Italian

Introduction to the Italian language and culture: pronunciation, grammar, reading of simple texts and conversation. Fee: \$50

1402 Elementary Italian

Pre-requisite(s): ITA 1401 or two units of high school Italian.
Continuation of ITA 1401. Fee: \$50

2310 Intermediate Italian

Pre-requisite(s): ITA 1402 or three units of high school Italian.
Conversation, composition, cultural readings, and grammar review. Fee: \$50

2320 Intermediate Italian

Pre-requisite(s): ITA 2310 or four units of high school Italian.
Continuation of ITA 2310. Fee: \$50

3301 Advanced Italian Grammar

Pre-requisite(s): ITA 2320 or consent of instructor.
Review of problematic grammar and the study of advanced structures in complex communication.

3302 Italian Conversation, Reading, and Composition

Pre-requisite(s): ITA 2320 or consent of instructor.
Development of communication skills through the study of Italian civilization, culture, and selected works of literature.

3308 Italian Pop Culture

Pre-requisite(s): ITA 2320.
Popular culture in Italy as represented in film, music, popular literature, and mass media.

3310 Introduction to Italian Literature

Pre-requisite(s): ITA 2320 (or equivalent) or consent of instructor.
Introduction to Italian literature through the study of selected works.

3320 Conversation and Composition in Tuscany

Pre-requisite(s): ITA 2320 or consent of Baylor in Tuscany director.
Further development of oral and written skills within the context of the Baylor in Tuscany program.

3330 Italian Through Film

Pre-requisite(s): ITA 2320 (or equivalent) or consent of instructor.
Development of communication skills through viewing and discussing Italian movies.

3337 Italian Civilization

Pre-requisite(s): ITA 2320 or consent of the instructor.

The social, cultural, historical, and intellectual aspects of Italian civilization from its origin to the present.

3342 Giro d'Italia: Regions of Italy

Pre-requisite(s): ITA 2320 or consent of instructor.

The geographic, historical, cultural, and economic aspects of Italy's regions.

3348 Florence and Its Cultural Treasures

Pre-requisite(s): ITA 2320 or consent of Baylor in Tuscany director.

The history and cultural heritage of Florence, from antiquity to the present, within the context of the Baylor in Tuscany program.

3V70 Special Problems

1 to 3 sem. hrs.

Pre-requisite(s): ITA 2320 or consent of instructor.

Independent study in Italian language or literature. With content changed, this course may be repeated once for credit.

Japanese (JPN)**1401 Introductory Japanese**

Introduction to the Japanese language and culture: pronunciation, grammar, reading of simple texts and conversation. Fee: \$50

1402 Elementary Japanese

Pre-requisite(s): JPN 1401 or two units of high school Japanese.

Continuation of JPN 1401. Fee: \$50

2310 Intermediate Japanese

Pre-requisite(s): JPN 1402 or three units of high school Japanese.

Conversation, composition, cultural readings, and grammar review. Fee: \$50

2320 Intermediate Japanese

Pre-requisite(s): JPN 2310 or four units of high school Japanese.

Continuation of JPN 2310. Fee: \$50

3301 Japanese Reading Development

Pre-requisite(s): Eleven semester hours of Japanese including JPN 2320 or consent of instructor.

Development of Japanese reading skills through grammar review and selected readings.

3302 Japanese Reading Skills

Pre-requisite(s): JPN 3301 or equivalent.

Further development of reading skills through grammar review and selected readings, completing the introduction of the 1,850 ideographs required for reading general publications in Japanese language.

3303 Japanese Conversation and Composition

Pre-requisite(s): JPN 2320.

Further development of communication skills through conversation and composition.

3304 Japanese Civilization

Pre-requisite(s): JPN 3301, 3302, or 3303.

Japanese history and culture in the target language.

3305 Japanese for Business

Pre-requisite(s): JPN 2320 or consent of instructor.

Development of cultural competence and Japanese language proficiency in business and other professional workplace situations. Includes authentic and current materials to develop understanding of the business practices, corporations and various industries in Japan.

3306 Japanese Cinema

Pre-requisite(s): JPN 2320 or consent of instructor.

Critical analysis of Japanese films from 1950s to present. Designed to develop cultural competence and Japanese proficiency through discussions and presentations.

3352 Japanese Theatre and Culture (Cross-listed as THEA 3352)

See THEA 3352 for course information.

3V70 Special Topics in Japanese

1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor.

Special topics in Japanese language, literature, and culture. With content changed, may be repeated for a total of 6 hours.

4V90 Special Topics in Japanese

1 to 3 sem. hrs.

Pre-requisite(s): JPN 3301, JPN 3302, JPN 3303, and JPN 3304; or consent of instructor.

An independent study course in Japanese language and culture or literature on a topic selected by the student in consultation with the instructor. With content changed, this course may be repeated once for up to six semester hours of credit.

Journalism (JOU)**1303 Introduction to Mass Communication (Cross-listed as FDM 1303)**

See FDM 1303 for course information.

2303 Reporting and Writing for Media

Professional writing skills used for a variety of media. Research and interviewing techniques for storytelling for multiple mediums. Evaluation of different media for content, bias, ethics, news values, diversity and objectivity. Fee: \$50

3310 Sportswriting

Pre-requisite(s): JOU 2303 or 3372.

Historical and multi-media perspective on sports reporting through lectures and reporting assignments covering intercollegiate athletic competition.

3315 Broadcast Writing (Cross-listed as FDM 3315)

Pre-requisite(s): For Journalism majors, JOU 2303: for Film and Digital Media or Communication Specialist majors: FDM 3372. Not open to Pre-Film and Digital Media students.

The theory and practice of broadcast news reporting including gathering, critically processing and writing the news. Fee: \$60

3320 Advertising Procedures (Cross-listed as MKT 3320)

See MKT 3320 for course information.

3321 Advertising Copywriting

Pre-requisite(s): JOU 3325 and upper-level standing.

The process of developing effective advertising copy for the mass media, including concept generation, research, copy testing, advertising execution, media placement and assessment.

3325 Editing

Pre-requisite(s): JOU 2303 or JOU 3372.

Development of skills and resources used by editors in preparing content for publication in the print or digital world. Emphasis on editing and design using relevant programs. Also covers legal and ethical issues as well as diversity in the newsroom. Fee: \$50

3355 Media Photography I: Introduction

Pre-requisite(s): Upper-level standing or consent of instructor.

Basic theory of visual communication. Instruction in basic camera and lighting skills and laboratory practice. Completion of photographic assignments for a range of media. Laboratory required. Fee: \$50

3356 Media Photography II: Photojournalism

Pre-requisite(s): JOU 3355

Continued development of photographic skills through individual photojournalism projects. Emphasis on the completion of location assignment work and documentary projects for publication. Laboratory required. Fee: \$50

3357 Advanced Photography

Pre-requisite(s): JOU 3355 and 3356.

Further enhancement of technical skill and creative vision in media photography. Emphasis on professional practice including self-promotion and the completion of a portfolio. Fee: \$50

3358 Video Journalism

Pre-requisite(s): JOU 3355.

Introduction to video journalism with emphasis on pre-production, camera handling, editing and video storytelling. Fee: \$100

3361 School Publications Supervision

Planning and supervising the communication functions in public schools, including school newspapers, yearbooks, and school public relations. Writing (story development), advertising, and budgeting for publications. Designed for secondary education students who may serve as advisers of high school publications.

3366 Public Relations for Non-Profit Organizations

Pre-requisite(s): JOU 3367 or consent of instructor.

Communication techniques, public relations, news writing and advertising procedures applied to needs of non-profit organizations or local churches. Includes laboratory work, research, and individual and team projects in social service or church public relations. Fee: \$50

3367 Principles of Advertising and Public Relations

Pre-requisite(s): JOU 2303 or JOU 3372 or consent of instructor.

Professional communication principles applied in contemporary public relations and advertising concepts. Theory, history, and practice of public relations and advertising, including evaluation of public opinion, and the planning, implementing, and evaluating of public relations and advertising programs. Designed for students with journalism background.

3369 Media Design

Pre-requisite(s): JOU 3325 and sophomore standing.

Introduction to graphic design in a media setting. Students work with Adobe InDesign, Photoshop and Illustrator software. Fee: \$50

3370 Public Relations Agency

Pre-requisite(s): JOU 3367 and JOU 3369.

Application of public relations principles in an agency setting. Fee: \$50

3372 Writing for Media Markets (Cross-listed as FDM 3372)

Pre-requisite(s): Sophomore or upper-level standing. Not open to Pre-Film and Digital Media majors.

Specialized writing for media markets, including public relations releases, brochures, news reports, and speeches. Fee: \$50

3374 Public Relations Writing

Pre-requisite(s): JOU 2303.

Use of audience and media analysis with the logic and language skills needed to construct messages in the public relations profession.

3375 Advanced Reporting and Writing

Pre-requisite(s): JOU 2303.

Experience in news gathering and writing with emphasis on relationships with professional news sources. Lariat laboratory included. Fee: \$50

3376 History of American Journalism

Pre-requisite(s): Open to juniors and seniors throughout the university.

Development, impact, and importance of communication groups and of individual journalists and media in the United States.

3386 Editorial and Column Writing

Pre-requisite(s): JOU 2303.

Fundamentals of writing informative and persuasive editorials and in writing appealing newspaper columns. Fee: \$50

3387 International Communication

Pre-requisite(s): Open to juniors and seniors throughout the university.

International communication: its history, the flow of news and information, its role in international relations, a comparison of press systems, the role of new World Information Order, and communication in developed and developing nations.

3389 Magazine and Feature Writing

Pre-requisite(s): JOU 2303 and 3325.

The nature and functions of magazine and feature article writing and editing, with emphasis on identifying article ideas and taking projects through the writing, editing and placement process. Fee: \$50

3391 News Internship

Pre-requisite(s): JOU 3375 and consent of instructor.

Open to journalism majors on approved internships with various media under faculty supervision. Record of work done, and report of media supervisors required.

3392 Photo Internship

Pre-requisite(s): JOU 3356 and consent of instructor.

Open to journalism majors on approved internships with various media under faculty supervision. Record of work done, and report of media supervisors required.

3393 Religious Communication Internship

Pre-requisite(s): JOU 3375 or 4368 and consent of instructor.

Open to journalism majors on approved internships with various media under faculty supervision. Record of work done, and report of media supervisors required.

3394 Advertising Internship

Pre-requisite(s): JOU 3321 and consent of instructor.

Open to journalism majors on approved internships in advertising.

3395 Public Relations Internship

Pre-requisite(s): JOU 4368 and consent of instructor.

Open to journalism majors on approved internships in public relations.

3397 Magazine Publishing

Pre-requisite(s): JOU 3325.

In-depth examination of magazine function, research, copy editing and layout, with practice in each. Strong emphasis on editorial decision-making and formulation of magazine editorial policy. Consumer, special interest, professional, trade, and company-sponsored magazines are studied. Fee: \$50

4305 Gender, Race & Media

Pre-requisite(s): Upper-level standing or consent of the instructor.

Theory, critical analysis techniques and personal experiences with race, gender and class. Examination of the link between media representations, institutional practices and how closely these images reflect more objective measures of reality.

4310 Media Management

Pre-requisite(s): JOU 3375 or 4368, or consent of instructor.

The theory and methods of modern media management, including advertising sales and production, news-editorial organization and operations, and business and distribution functions.

4315 Strategic Communications Research

Pre-requisite(s): JOU 3367.

Continued research and development of advertising materials, including strategic planning, budgeting and media allocation, testing and evaluation.

4320 Advertising Management

Pre-requisite(s): JOU 4315.

Structures and procedures for effectively managing advertising production and functions within media and agency environments.

4325 Advanced Editing

Pre-requisite(s): JOU 3325 for journalism undergraduates.

Continued development of editing skills through exploration of advanced techniques in newspaper layout and design. Individual project required. Use of Macintosh computer to design information graphics and news pages. Fee: \$50

4330 News Media and American Society

Pre-requisite(s): Upper-level standing or consent of instructor.

Philosophical examination and evaluation of the interaction between society and news media in the United States.

4340 Writing and Editing for On-Line Media

Pre-requisite(s): JOU 2303 and 3325.

Technical skills, writing and editing for web-based mass communication. Students will learn the coding language, some image manipulation and writing hypertext information for web-based mass media and public relations and apply this learning in a project. Fee: \$50

4350 Mass Media and Popular Culture

Pre-requisite(s): Upper-level standing or consent of instructor.

Examination and evaluation of the roles of the mass media in promoting popular culture, including how media practitioners are portrayed.

4359 History of Photography

Pre-requisite(s): Upper-level standing.

Photography since its appearance in 1839: people, ideas, and technologies that shaped the history of photography; the cultural and artistic environments in which photographs have been taken; and the major genres of photography, including portraiture, documentary, art-photography and photojournalism.

4360 Documentary Explorations

Pre-requisite(s): Upper-level standing.

The theory and, selectively, the practice of written, photographed and filmed documentary, oral history, and participant-observer anthropology. Students will undertake projects involving fieldwork. Fee: \$50

4368 Advanced Public Relations

Pre-requisite(s): JOU 2303 and 3367; and upper-level standing.

Researching, planning, implementation and evaluation of public relations campaigns and programs. Includes a public relations internship. Fee: \$50

4371 Public Relations Media Programming

Pre-requisite(s): JOU 3367 and 4368.

Planning and production of programming for public relations events, meetings and campaigns. Students compose presentations that mix media to achieve stated public relations objectives.

4380 Law and Ethics of Journalism

Pre-requisite(s): Upper-level standing or consent of instructor.

Rights and privileges of the news media and their social and legal responsibilities under the principles of common law and the constitution. Includes an overview of the American judicial system and the role of the journalist in reporting civil and criminal matters.

4398 Public Affairs Reporting

Pre-requisite(s): JOU 2303.

Problems in reporting local, state, and national governmental affairs, including obligations and responsibilities of the reporter and of the media. Actual practice under field conditions.

4669 Documentary Summer Field School

Pre-requisite(s): Upper-level standing.

Course centers on documentary fieldwork during a residency of up to three weeks. Methodologies may include oral history, participant observation, documentary photography and documentary radio. Fee: \$50

4V80 Radford Seminar

1 to 6 sem. hrs.

Pre-requisite(s): Upper-level standing.

Advanced writing specialization in specific journalistic disciplines. May be repeated up to a total of six semester hours provided topic is different.

4V95 Special Studies

1 to 3 sem. hrs.

Pre-requisite(s): JOU 2303 and upper-level standing.

Individual study with faculty guidance of some vital area in the field of communication. May be repeated once with change in content.

Korean (KOR)

1401 Elementary Korean

Introduction to Korean language and culture; pronunciation, grammar, conversation, and reading of simple texts. Fee: \$50

1402 Elementary Korean

Pre-requisite(s): KOR 1401 or two years of high school Korean.

A continuation of KOR 1401. Fee: \$50

2310 Intermediate Korean

Pre-requisite(s): KOR 1402 or three years of high school Korean.

Conversation, composition, cultural readings, and grammar review. Fee: \$50

2320 Intermediate Korean

Pre-requisite(s): KOR 2310 or four years of high school Korean.

A continuation of KOR 2310. Fee: \$50

Latin (LAT)

1301 Elementary Latin I

The basic elements of classical Latin grammar and Roman culture, with readings emphasizing ethics, history, morality, philosophy, and mythology.

1302 Elementary Latin II

Pre-requisite(s): LAT 1301 or departmental placement.

Continuation of LAT 1301.

1401 Beginning Latin

Pre-requisite(s): Consent of the department.

Introduction to the Latin language including the same inflection, syntax and easy reading as LAT 1301. Teaching strategies differ from those of the traditional Latin class, including more contact hours and a variety of teaching techniques with emphasis on repetition of particular structures.

1402 Beginning Latin

Pre-requisite(s): Consent of the department.

Introduction to the Latin language including the same inflection, syntax and easy reading as LAT 1302. Teaching strategies differ from those of the traditional Latin class, including more contact hours and a variety of teaching techniques with emphasis on repetition of particular structures.

2310 Intermediate Latin Prose

Pre-requisite(s): LAT 1302 or departmental placement.

Selections from Latin prose authors, such as Cicero; review of inflection and syntax.

2315 Intermediate Latin

Pre-requisite(s): LAT 1302 or three units of high school Latin.

Selections from Julius Caesar; review of inflection and syntax.

2320 Intermediate Latin Poetry

Pre-requisite(s): LAT 1302 or departmental placement.

Selections from Latin poets, such as Virgil and Catullus; review of inflection and syntax.

2401 Intermediate Latin (Prose)

Pre-requisite(s): LAT 1402 and consent of instructor.

Selections from representative Latin authors, including Caesar, Cicero, and Apuleius; review of inflection and syntax.

2402 Intermediate Latin (Poetry)

Pre-requisite(s): LAT 1402 or 2401, and consent of instructor.

Selections from representative Latin authors including Vergil, Ovid, Catullus, Propertius, and Tibullus; review of inflection and syntax.

3301 Lucretius

Pre-requisite(s): Two 3000 level courses in Latin or consent of instructor.

Selections from the De Rerum Natura.

3302 Livy

Pre-requisite(s): LAT 2310 and 2320 or equivalent.

Selections from the Roman historian Livy.

3303 Tacitus

Pre-requisite(s): Two 3000 level courses in Latin or consent of instructor.

Selections from the Roman historian Tacitus.

3304 Pliny and Martial

Pre-requisite(s): Two 3000 level courses in Latin or consent of instructor.

Selections from the Letters and the Epigrams.

3305 Cicero, Philosophical Writings

Pre-requisite(s): LAT 2310 and 2320.

Selections from the philosophical writings of Cicero.

3306 Sallust

Pre-requisite(s): LAT 2310 and 2320 or consent of instructor.
Detailed study of selections from the works of Sallust.

3307 Julius Caesar: Reading the Ancient Sources

Pre-requisite(s): LAT 2310 and 2320 or consent of instructor.
Readings on the life and times of Gaius Julius Caesar.

3308 Readings in Imperial Epic

Pre-requisite(s): LAT 2320 or consent of instructor.
Study of imperial epic poetry (selections from Lucan, Statius, Silius, Valerius Flaccus) and its significance for the development of Roman imperial ideology.

3309 Ovid's Metamorphoses

Pre-requisite(s): LAT 2320 or consent of instructor.
Study of Ovid's epic poem, Metamorphoses.

3311 Epistles and Epigraphy of Rome

Pre-requisite(s): LAT 2310 and 2320 or consent of instructor.
Latin inscriptions and selected letters of Cicero, Seneca, and Pliny.

3312 Augustine

Pre-requisite(s): LAT 2310, 2320 or 2401.
Selected readings of St. Augustine.

3350 Roman Drama: Senecan Tragedies

Pre-requisite(s): LAT 2320 or consent of instructor.
Study of Seneca's tragedies, the Euripidean influence, and their impact on world theatre.

3351 Roman Comedy

Pre-requisite(s): LAT 2310 and 2320 or equivalent.
Selected plays of Plautus and Terence.

3352 Roman Lyric and Elegy

Pre-requisite(s): LAT 2310 and 2320 or equivalent.
Selections from the poetry of Catullus, Propertius, Tibullus, and Ovid.

3353 Roman Satire

Pre-requisite(s): LAT 2310 and 2320 or equivalent.
Selected satires of Horace and Juvenal.

3354 Horace

Pre-requisite(s): LAT 2320 or consent of instructor.
Selections from the poetry of Horace.

3390 Medieval Latin Prose

Pre-requisite(s): LAT 1302 or three units of high school Latin or consent of instructor.
Selections from representative prose authors, including Peter Abelard, Bede, Ekkehard of Aura, Petrarch, Erasmus, Thomas More; review of inflection and syntax.

3395 Medieval Latin Poetry

Pre-requisite(s): LAT 2310 and 2320.

Selections from representative poetic styles and poets; authors may include St. Columba, Fortunatus, Paulus Diaconus, Reinardus Vulpes, Walter Map, Hrotsvitha of Gandersheim, and Gulielmus Gnapheus; review of inflection and syntax.

3396 Classical and Medieval Drama: Terence and Hrotsvitha of Gandersheim

Pre-requisite(s): LAT 2310 or higher.

A Comparative Reading in Latin of selections of Terence's six comedies and Hrotsvitha's six medieval plays on Christian themes, inspired by Terence and transformed into a Christian context.

3397 Medieval Latin Religious Drama

Pre-requisite(s): LAT 2310 or higher.

A Reading in Latin of selections of mystery, morality, and miracle plays from the 10th to the 14th century on Old and New Testament topics.

4308 Latin Language Seminar

Pre-requisite(s): LAT 2320 or consent of instructor.

Latin grammar, morphology, syntax, and phonology, prose composition, and reading of theoretical texts and analysis of Latin words in passages from ancient authors.

4309 Virgil

Pre-requisite(s): LAT 2310 and 2320.

Translation from Latin into English of selections from the works of Virgil, especially the Eclogues, Georgics, and/or Aeneid.

4310 Augustus: Reading the Ancient Sources

Pre-requisite(s): LAT 2310 and 2320; or consent of instructor.

Readings in Latin on the life and times of the Roman emperor Augustus.

4311 Latin Prose Composition

Pre-requisite(s): LAT 2320.

Practice in analysis and composition of Latin prose to improve grammar and syntax and promote knowledge and appreciation of Latin prose style.

4312 Statius in Medieval and Renaissance Latin Epic

Pre-requisite(s): LAT 2310; consent of instructor.

The influence of Statius and his masterpiece, the Thebaid on Medieval Latin and vernacular epics.

4V01 Readings from Latin Literature

1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor.

Latin authors to be read are selected to meet the needs of the student. With content changed, this course may be repeated up to a total of nine semester hours.

Latin American Studies (LAS)

1301 Latin American Nations and People

This course provides an interdisciplinary introduction to the cultural traditions and institutions of the Western Hemisphere, including Mexico, Central America, South America, and the Caribbean.

2301 An Introduction to Latin American Studies

An interdisciplinary introduction to Latin American Studies.

3390 Special Studies in Latin American Studies

4350 Latin American Studies Seminar

An interdisciplinary seminar to focus on topics related to Mexico, Argentina, Brazil, Central America, and developing Latin American nations. This course can be taken more than once since its content is different every year.

4351 The History of Gender in Latin America (Cross-listed as HIS 4350)

See HIS 4350 for course information.

4364 Traditional Music and Culture in Latin America (Cross-listed as MUS 4364)

See MUS 4364 for course information.

4390 Advanced Reading and Research in Latin American Studies

Advanced reading and research in Latin American studies. The content and methodology of this course should be approved by the Latin American Studies Committee.

Leadership Development (LDS)

1301 Introduction to Leadership

Provides insights into a student's present leadership strengths and developmental needs. Prepares students for leadership positions, focusing on topics such as a philosophy of leadership, the role of power and authority in leadership, and goal setting for leadership development.

2301 Leadership and Vocation

Pre-requisite(s): LDS 1301.

This course explores personal strengths, values and aspirations for influencing the world through a unique vocation or calling. Through this experience, students will become committed to their own personal growth as a human being, as well as to the personal growth of others in the class. In addition, applications of a variety of historical and contemporary perspectives on vocation and calling will be emphasized.

3301 Organizational Leadership

This course is designed for student leaders with a desire to explore organizational theory and systems. The course will further develop a student's understanding of how these systems and theories influence culture, behaviors, and organizational effectiveness. Students will examine their own leadership styles and how that approach fits into the organization, its members, and mission.

3302 Christian Leadership in Residential Communities

The purpose of this class is to explore how Christian Leadership can be used to develop residential communities. Specifically, we will explore how authentic Christian community is formed by leaders who employ techniques related to spiritual wellness, God-given strengths, relational approaches, inclusivity, and other aspects of community development. Using the Community Leader position at Baylor University as an experiential framework, this class will provide both philosophical and application opportunities to hone a student's ability to be a Christian leader of communities.

3304 Peer Leadership for Health and Wellness

This course uses an experiential pedagogy to broaden students' development as leaders. Experiential learning provides a comprehensive approach to learning that integrates theory, practice, implementation, and reflection. Through your experience as peer leaders you will be challenged to examine your understanding of leadership, as well as reflect on your own leadership and that of others.

In the Health and Wellness Leadership course specifically, students will gain a broad understanding of current health topics of college students and ways to properly address and respond to these topics in both a presentation and mentoring setting.

3305 Peer Leadership for Community Engagement and Service

This course uses an experiential pedagogy to broaden students' development as leaders; a comprehensive approach to learning that integrates theory, practice, implementation and reflection. Through experience as a peer leader, students will examine their understandings of leadership, and reflect on their own and other's leadership development.

3306 Peer Leadership for Student Experience

This course uses an experiential pedagogy to broaden students' development as leaders; a comprehensive approach to learning that integrates theory, practice, implementation and reflection. Through experience as a peer leader, students will examine their understandings of leadership, and reflect on their own and other's leadership development.

3307 Leadership and Student Thriving

This course explores the topic of leadership by examining ideas about people at their best. Foundational to the course are principles from Positive Psychology about well-being, optimal functioning and thriving during the college years, as well as approaches to leadership that leverage individual strengths and passions. The class will focus on six themes: thriving in college and beyond, understanding yourself, leading yourself, understanding others, engaging in community, and living out leadership and calling.

3308 Interfaith Leadership

This course will explore theoretical and practical issues related to leadership across and inclusive of different faiths. We will discuss various civic and spiritual practices related to leadership and religious identity. Students will consider their own sense of formation and worldview through reading, writing, class discussion, and co-curricular experiences in order to cultivate spiritual growth, civic capacity, and intercultural skills.

3309 Mental Health Peer Leadership

This course uses experiential learning to educate Mental Health Peer Leaders on the pertinent topics of mental health and illness and to equip them to break down mental health stigma and empower their peers to also challenge negative beliefs or attitudes.

3310 Talent and Development

Pre-requisite(s): LDS 2301 or CCS 2301.

Talent, development, and success are fascinating topics, but few understand the theory and research behind what leads to excellence in any field. This course examines the science, theory, and research behind talent, development, success, critical thinking, and expertise. Students will learn what is known and unknown by scholars about these phenomena, as well as pathways for developing talent in themselves and others.

3311 Leadership Through Informed Engagement

Pre-requisite(s): LDS 2301 or CCS 2301.

This interdisciplinary course is designed to engage students in a critical conversation about leadership and community engagement. It challenges students to reflect on their understanding of leadership, community engagement, and the intersection of the two. Students will engage in this discussion drawing specifically on their experiences as a Baylor student. They will participate in critical discussions about what it means to participate in informed engagement.

3312 Leadership for 21st Century America

Pre-requisite(s): LDS 2301 or CCS 2301.

This course will address the changing demographics of our global community of the 21st century. The future of leadership will be complex in terms of practices that are impacted by a changing diversity of "world citizens" and it will demand an understanding of geographic, economic, cultural, political, religious, and linguistic mediums. This course will address these skills, and areas of knowledge.

3370 Aviation Leadership (Cross-listed as AVS 3370)

See AVS 3370 for course information.

3V01 Special Topics in Leadership

1 to 3 sem. hrs.

Pre-requisite(s): LDS 1301.

Each Special Topics in Leadership course will focus on a specific area of leadership (e.g. Women in Leadership or Leadership in a Multicultural Society). May be repeated under different topic for a total of 9 credit hours.

4398 Advanced Leadership

Pre-requisite(s): LDS 1301 or LDS 2301 or LDS 3V01.

Leadership course focusing on advanced leadership theories and applying those theories in leadership practice.

Library Science (LS)

3305 Children's Literature

An exploration of the development of a distinct literature for children. An analysis of books and illustrations for preschool through the elementary level. Reading, evaluation, and application of the various media for children.

4306 Curriculum Applications in Children's Literature

Research in the field of children's literature and its application to the elementary classroom, emphasizing activity approaches and curriculum planning.

4307 Multicultural Literature

Students will explore a framework for examining the impact and influence of cultural, linguistic, and ethnic diversity in literature. Instructional lessons and activities are developed with the goal of enhancing students' critical lens for increasing culturally relevant and affirming practices that are authentic, intentional, and engaging for learners.

4320 Young People's Literature

Reading and reacting to print and non-print media relevant to interests and problems of adolescents. Attention to interest and maturity levels, developmental values, curriculum uses, discrimination of literary tastes, and the dynamic significance of literature for young people.

Lifetime Fitness (LF)

Activity Courses (LF)

1104 Adaptive H.P.

Pre-requisite(s): Departmental consent required.

Lifetime fitness activity class for students needing accommodation due to injury or disability. Prior to registration, students must present a medical statement from their physician outlining both the nature of the disability and recommendations for a variety of exercises to be done in class. The individualized exercise program is a total-body program with appropriate accommodations. A physical therapy exercise protocol that does not require an attending physical therapist may be utilized in class sessions. Participation in physical therapy sessions in a clinical setting will not substitute for an activity class. There is no waiver of the LF requirement. Course may be repeated for credit if necessary due to ongoing medical condition. Course is graded pass-fail. Fee: \$50

1106 Beginning Aerobics

Concepts of physical fitness and the development of movement routines are fundamental to this course. Material covered includes a basic understanding of fitness with various assignments relating to that knowledge. Purchase of a lab manual is required. Fee: \$50

1107 Intermediate Aerobics

This course incorporates all of the aspects of the beginner course. In addition, it teaches complex dance/exercise routines to music and provides a vigorous and complete workout for the more advanced student. Purchase of a lab manual is required. Fee: \$50

1109 Swimmercize Aerobics

This course provides an enjoyable alternative to exercising on land. A water exercise class is an extremely efficient means of achieving fitness (particularly muscle tone) while using the natural resistance of water to exercise your body to the music. Fee: \$50

1111 Aerobic Running

Students must be capable of running a mile without stopping at the beginning of the course. This class provides runners the opportunity to train and increase aerobic running capacity. Workouts are designed to meet individual fitness levels and goals. Health-related fitness components, safety, injury prevention, and training programs will be taught. Students develop an ability to maintain a high degree of aerobic fitness through long-distance running. Fee: \$50

1112 Backpacking and Camping

A course designed to teach the values of wilderness experiences and the knowledge and skill necessary for enjoyable and safe basic wilderness living. Topics receiving emphasis include: safety, fitness, ecology, clothing, equipment, food preparation, emergency care, navigation and survival. Fee: \$50

1113 Advanced Wilderness Pursuits

Application of baseline knowledge of land-based activities to more specialized/advanced pursuits like thru-hiking, winter and/or glacier travel, canyoneering, or long expedition-style backpacking experiences. Development of physical fitness and specialized skills, techniques, concepts, and terminology requisite in adventure pursuits. A multi-day wilderness experience is required.

1114 Beginning Badminton

A course designed to teach the fundamental skills in badminton including appropriate stroke mechanics, serving, strategy, game variations, equipment selection, and rules and regulations. Fee: \$50

1115 Intermediate Badminton

This course allows students to refine the skills previously developed, to participate at a higher level of competition, including refereed games, to increase their knowledge of court strategy, and to improve physical conditioning through increased performance. Fee: \$50

1117 Beginning Ballet

This is an introductory course to ballet. The course provides training in technique, body placement, movement theory and terminology. Progressive classical ballet barre center work and floor combinations enable students to train their bodies in the proper classical technique of basic ballet. Fee: \$50

1118 Intermediate Ballet

This course reviews the material present in basic ballet. More advanced ballet moves are used in an effort to progress to more difficult ballet routines. Fee: \$50

1119 Advanced Ballet

Pre-requisite(s): Departmental consent required.

This course is designed for the student who has had advanced level experiences in school or private ballet academy or has successfully completed the intermediate ballet class. Skills include refining basic moves and extensive work on dance routines. Fee: \$50

1121 Beginning Bicycling

An introductory course covering bicycling knowledge, skills, and safety. Class rides will be from eight to ten miles. Required equipment: bicycle (safe, dependable, functioning, ten or more speeds), approved helmet, and means of repairing flat tire (frame pump, tire tools, patch kit, and wrench to get hub nut off, if needed). Fee: \$50

1122 Intermediate Bicycling

An advanced-level course covering bicycling knowledge, skills, and safety. Class rides will be ten to fourteen miles. Although LF 1121, Beginning Bicycling, is not a Pre-requisite(s), students are expected to have mastered basic bicycling skills before enrolling in this course. Required equipment: safe, dependable, efficient bicycle with ten or more speeds; approved helmet; tire pump (frame type); and basic tool kit. Fee: \$50

1123 Beginning Mountain Biking

This course is designed to prepare students with the basic skills needed for a lifetime of enjoyable mountain bike riding. Students are provided with an overall view of mountain biking, rules of the trail and road, safety, riding technique, clothing, equipment, and basic bike maintenance. Emphasis will be placed on the development of skills necessary to safely climb, descend, and maneuver a mountain bike through technical areas on various terrains. Fee: \$50

1124 Beginning Bowling

The instructional format for this course includes skill development in grip, stance, approach, and ball delivery. Ball selection, scoring, rules and regulations, and practice will also be important ingredients of this class. Fee: \$50

1125 Intermediate Bowling

This course incorporates the concepts learned in the beginner class with increased analysis and corrective feedback of present bowling techniques. Additional performance time allows students to enhance their skills. Fee: \$50

1128 Varsity Sports Conditioning I

Pre-requisite(s): Departmental consent required.

This course is designated as an entry level course for varsity athletes participating in intercollegiate sports. Fee: \$50

1129 Varsity Sports Conditioning II

Pre-requisite(s): Departmental approval required.

This course is a continuation of Varsity Conditioning I and allows athletes the opportunity to demonstrate the skills and knowledge acquired in Varsity Conditioning I. Fee: \$50

1130 Social Dance

Introduction to social dance for the purpose of developing a lifetime recreational activity, often linked to social and professional situations. Various styles of social dance, such as fox trot, waltz, swing, rock and roll, country western, cha-cha, and tango, will be covered. Fee: \$50

1134 Fitness Theory and Practice

A comprehensive course designed for the student desiring an in-depth understanding of the concepts of physical fitness including strength development, muscular endurance, cardiovascular endurance, body composition, stress, mood modifiers, and nutrition. A variety of energetic, practical experiences are incorporated to enhance the lectures. Fee: \$50

1138 Beginning Golf

This course offers the students the opportunity to develop skills appropriate to the enjoyment of this healthy, lifetime sport. Students learn the proper stance, grip, and swing techniques for all clubs, as well as rules, terminology, and equipment selection. Fee: \$50

1139 Intermediate Golf

Pre-requisite(s): LF 1138 or departmental consent required.

A course designed for students who already possess the basic skills and knowledge necessary to play golf. Topics at the intermediate level include rules, productive practice, mental aspects, course management, ball flight laws, and continued in-depth look at the short game and full swing. Video analysis is utilized to enhance student learning. Fee: \$50

1140 Advanced Golf

Pre-requisite(s): Departmental consent required.

This course is for those students who own a set of clubs and have a handicap of less than twenty. Fee: \$50

1147 Beginning Jazz Dance

A dramatic, disciplined, and versatile style of theatrical dance. Students will gain a broader base for creative development, expression, and movement than ballet. The major concepts of jazz dance include principles of proper body alignment, strength, and flexibility development, and knowledge of movement theory. Fee: \$50

1148 Intermediate Jazz Dance

The intermediate-level jazz class greatly strengthens and builds upon a student's dance technique, increases knowledge and application of body alignment, flexibility and muscle control. Intermediate level includes more complex progressions, dance combinations, choreography, dance routines, and teaching skills. Fee: \$50

1151 Beginning Martial Arts

This is a course designed to improve beginning self-defense techniques. Skills include kicking, punching, blocking, and offensive and defensive maneuvers. Martial Arts improve strength flexibility, body control, and self-confidence. (Lab fee required.) Fee: \$50

1152 Intermediate Martial Arts

Pre-requisite(s): LF 1151 or departmental consent required.

This course reviews material covered at the beginning level of Martial Arts. The practice of fluid movements, sweeps, throws, falling and rolling, joint-locks and beginning self-defense maneuvers are introduced. This course also develops kata applications and introduces free sparring. (Lab fee required.) Fee: \$50

1153 Advanced Martial Arts

Pre-requisite(s): LF 1152 or departmental consent required.

Students must have successfully completed Intermediate Martial Arts or have special permission of the instructor to enter advanced class. The advanced class will focus on applying the techniques of self-defense, as well as introducing the strategy and tactics used in free sparring. New martial arts techniques appropriate for each skill level will also be taught. (Lab fee required.) Fee: \$50

1156 Beginning Racquetball

Equipment selection, safety procedures, serves, strokes, volley, court strategy, rules, and actual play are combined to give the basics needed for enjoyable and knowledgeable participation. Fee: \$50

1157 Intermediate Racquetball

This course refines the basics and offers the more advanced student the opportunity for increased participation and analysis and corrective feedback. Advanced shots such as overhead, backwall, Z, and drills strategy. Fee: \$50

1158 Paddle Sports

This course is designed to provide the student with the knowledge and skills needed to participate in and enjoy kayaking, canoeing and stand up paddle boarding (SUP) as lifetime fitness and recreational activities. Special emphasis will be given to the development of sound fundamental knowledge and skills such as paddling and steering techniques; rolling; fitting, care and use of equipment; personal safety and fitness skills; and reading moving water. Fee: \$50

1159 Sailing and Canoeing

A highly enjoyable recreational activity that provides the basic skills of seamanship necessary to canoe or sail safely and efficiently. The course content includes nautical terminology, types of sailing vessels, proper sailing mechanics, weather conditions, and emergency first aid care. American Red Cross certification is available upon completion of the course. Fee: \$50

1160 Beginning Rock Climbing

This course is intended to provide students with the fundamentals of rock climbing for lifelong leisure involvement. Course content will address personal fitness, knowledge of sport, equipment, climbing safety, and technique. The majority of this course will take place within the indoor rock wall environment, but skills taught will be transferable to a top rope, outdoor environment. Fee: \$50

1161 Intermediate Rock Climbing

Pre-requisite(s): LF 1160 or departmental consent required.

This course is intended to provide students with intermediate rock-climbing skills and practices including multi-pitch belaying and rappelling, anchor systems, partner and self-rescue, route finding, minimal impact climbing, climbing hazards, and safety, as well as an introduction to sport lead climbing (indoor lead climbing). The majority of this course will take place within the indoor rock wall environment. A class weekend field trip is required. Fee: \$50

1162 Outdoor Adventure Sports

Introduction to a variety of outdoor adventure sports, e.g., mountain biking, cycling, canoeing, kayaking, caving, rock climbing, bouldering, hiking, ice climbing, snow-shoeing, and geocaching. Focus will be on two to four activities to develop the entry level skills and fundamental techniques necessary for lifelong engagement in those pursuits. The course may include an overnight culminating experience.

1163 Beginning Self Defense

Practical self-defense for people with no previous training in martial arts. The course will emphasize risk avoidance, risk recognition, and escape. The tactics and strategy of physical confrontation will be introduced - falling, throws, punching, blocking, and kicking. (Lab fee required.) Fee: \$50

1168 Soccer

A comprehensive course in the fundamentals of soccer including dribbling, passing, kicking, and tackling skills, offensive and defensive strategies, rules and regulations, and conditioning. Fee: \$50

1169 Intermediate Self Defense

Pre-requisite(s): A minimum grade of C in LF 1151 or 1163.

Intermediate self-defense strategy and tactics for students who have already been introduced to the basic techniques of karate and/or self-defense training. (Lab fee required.) Fee: \$50

1170 Advanced Self-Defense

Pre-requisite(s): A minimum grade of C in LF 1152 or 1169.

Advanced self-defense strategy and tactics for students who already have an intermediate level of skill in karate and/or self-defense training with an emphasis on self-defense in a professional setting (teacher, therapist, counselor, etc.). Fee: \$50

1171 Softball

This course stresses the fundamentals of throwing, catching, fielding, batting, rules and regulations, equipment selection, drills, and actual play. Fee: \$50

1175 Beginning Swimming

This course in basic water safety is designed to make adults reasonably safe while in or near the water. Topics include: physical and mental adjustment to water, breathing and breath holding, kick on front and back, buoyancy and body positioning, propulsion and coordinated stroking, entries to water, and personal safety. Fee: \$50

1176 Intermediate Swimming

A course that develops correct stroke technique, introduction to breast stroke, side stroke, butterfly, turns, diving, basic and emergency water safety, and daily conditioning through lap swimming. Fee: \$50

1177 Advanced Swimming

This course is designed for the swimmer possessing sufficient skills in aquatics to allow for an understanding of the hydrodynamic principles associated with six strokes. This course will enable the individual to increase physical conditioning by designing individualized programs incorporating distance and interval training techniques into daily swim routines. Emergency water safety is stressed. Fee: \$50

1178 Lifeguard Training

Pre-requisite(s): Departmental consent required.

An advanced aquatic course that prepares the individual to deal with life-threatening situations in various aquatic environments. Advanced swimming skills are required. Skill areas include assists, carries, defenses, releases, equipment rescues, facility safety, and many others. National Red Cross Lifeguarding certification is offered upon successful completion. Fee: \$50

1179 Beginning Tai Chi

Beginning Tai Chi focuses on slow body movements used to improve balance, coordination, concentration, awareness and timing. Instruction follows a practical scientific approach yielding illustrations of applications for each of the movements in daily life. The classical Tai Chi form will be used as a model to facilitate the known benefits of exercise and stress reduction. Cardiovascular training, strength and flexibility training, balance and coordination are interval parts of Tai Chi training, as well as the meditative/stress management techniques that are a part of the form. Fee: \$50

1181 Beginning Tennis

This course teaches the basics for tennis. Included are tennis terminology, rules and regulations, etiquette, equipment selection, serve, volley, ball control, forehand and backhand strokes. In-class practice of drills and individual play is provided. Fee: \$50

1182 Intermediate Tennis

This class refines previously learned skills of ball control, serve, forehand and backhand strokes. Included in intermediate tennis is doubles play and class games and tournaments. Fee: \$50

1183 Advanced Tennis

The advanced tennis player must possess a detailed knowledge and understanding of stroke mechanics and corrective drills, rules, equipment, and terminology. The advanced tennis class provides an opportunity for play with others of the same proficiency in the game. Refining strokes and physical conditioning are stressed. Fee: \$50

1189 Volleyball

This exciting team sport incorporates knowledge of the rules and court strategy with skills such as setting, bumping, serving, and conditioning to make a well-rounded player. Fee: \$50

1190 Multi-terrain Volleyball

Pre-requisite(s): LF 1189 or formal competitive play.

For the student who has experience in volleyball through competitive play, Multi-terrain Volleyball offers analysis and development of techniques and game strategy for Wallyball, played in racquetball courts; Outdoor Volleyball, played on sand courts; and Indoor Volleyball. Emphasis is on refinement of skills of the game, conditioning, safety, court strategy, rules, and actual play for enjoyable and knowledgeable lifelong participation. Fee: \$50

1192 Weight Control

A course designed to teach weight control through a combination of proper diet, nutritional advice, and exercise. Toning and conditioning your body is accomplished through weight training, circuit training and exercise routines performed to music. Fee: \$50

1194 Beginning Weight Training

This course incorporates basic anatomic and physiological principles to specific lifts, exercises, muscles, and training techniques pertinent to the development of an individualized weight training program. Fee: \$50

1195 Intermediate Weight Training

This course is designed for the advanced students and will review basic concepts covered in the beginning course. In addition, more advanced techniques and training principles will be incorporated into each student's individual exercise routine. Fee: \$50

1197 Beginning Relaxation/Fitness

The beginning level provides a basic set of exercises which form the foundation of a regular daily routine. Relaxation techniques provide an effective approach to stress reduction. Emphasis is on improving postural alignment increasing strength, flexibility, endurance, improving concentration, and reducing stress. Fee: \$50

1198 Intermediate Relaxation/Fitness

Pre-requisite(s): LF 1197 or departmental consent required.

The intermediate level provides a comprehensive series of exercises designed to maintain the proper curvature of the spine, and to keep all systems of the body healthy. A wide range of intermediate exercises are presented for students to incorporate into their basic exercise routine. Therapeutic exercises are introduced for specific disabilities. Fee: \$50

1199 Advanced Relaxation/Fitness

Pre-requisite(s): LF 1198 or departmental consent required.

The advanced level is structured for the student who has developed strength, stamina and flexibility. Advanced exercises are introduced to maximize the potential for good health and vitality. Students learn to adapt the exercises to suit the various life cycles. Concentration on postural refinement is emphasized. Fee: \$50

1110 Aerobic Walking

This course is designed to provide students with a fitness foundation through the means of walking. Students will be given a fitness assessment profile, develop an exercise program, and participate in a series of small group and individual walks of varying lengths conducted over various terrains. Walking techniques and fitness strategies will be stressed. Conditioning emphasis will be placed on stamina, strength, flexibility, body composition, and muscle endurance. Student's progress of fitness and walking skills will be monitored and assessed regularly to assure completion of their goals and objectives. Fee: \$50

Linguistics (LING)

1V99 Elementary Special Studies in Less-Commonly Studied Languages

2 to 4 sem. hrs.

Pre-requisite(s): For majors only. Consent of instructor.

Study of a less-commonly studied language at the elementary level. May be repeated for a maximum total of sixteen hours with different content.

2V99 Intermediate Special Studies in Less-Commonly Studied Languages

2 to 4 sem. hrs.

Pre-requisite(s): For majors only. Consent of instructor.

Study of a less-commonly studied language at the intermediate level. May be repeated for a maximum total of twelve hours with different content.

3310 Introduction to Linguistics (Cross-listed as ENG 3310 and ANT 3310)

See ENG 3310 for course information.

3311 English Words (Cross-listed as ENG 3301)

See ENG 3301 for course information.

3312 Modern English Grammar (Cross-listed as ENG 3302)

See ENG 3302 for course information.

3315 Language in Society (Cross-listed as ENG 3305)

Pre-requisite(s): Upper-level standing or consent of instructor.

The study of language as it is used in its social context for marking an individual's group (e.g., race, gender, age, class, profession) membership.

3319 Language and Culture (cross-listed as ENG 3319)

Pre-requisite(s): Upper-level standing or consent of instructor.

The rich interaction between our language and cultural values in defining who we are and how we relate to one another. Understanding this complex interaction is seen as the key to effective cross-cultural communication.

3V99 Special Studies in Less-Commonly Studied Languages

2 to 3 sem. hrs.

Pre-requisite(s): For majors only. Consent of instructor.

Study of a less-commonly studied language at the advanced level. May be repeated for a maximum total of six hours with different content.

4302 Semantics and Pragmatics

Pre-requisite(s): LING 3310, ENG 3310, ANT 3310 or SPA 3309.

Basic concepts, methods, and controversies in the study of word meanings, sentences, and discourse, including the interaction of language and context.

4303 Contemporary Syntax

Pre-requisite(s): ENG 3302 or LING 3312 or ENG/LING/ANT 3310 or SPA 3309.

Principles of contemporary structural linguistics; concepts and operations of transformational syntax and case grammar as they are used to analyze the structure of language systems.

4305 Phonetics and Phonology

Pre-requisite(s): LING/ENG/ANT 3310 or SPA 3309.

Principles and methods for studying sound systems of languages.

4311 Special Topics in Linguistics

Pre-requisite(s): Upper-level standing and consent of instructor.

Topics in Linguistics not covered in the Language and Linguistics courses. Topic announced for each semester or session. Course can be repeated once with a change of topic and consent of the instructor.

4312 Old English Language (Cross-listed as ENG 4302)

See ENG 4302 for course information.

4313 First Language Acquisition

Pre-requisite(s): LING 3310 or consent of instructor.

Children's acquisition of sounds, lexicon, sentence structure, and contextual usage of their first language.

4314 History of the English Language (Cross-listed as ENG 4304)

See ENG 4304 for course information.

4318 Second Language Acquisition

Pre-requisite(s): ENG 3302 or LING 3312 or LING 3310, ENG 3310, ANT 3310 or SPA 3309 or consent of instructor.

Theories of language acquisition, taking into account such fields as linguistics, neurophysiology, psychology, sociology, and anthropology, as those disciplines illuminate the process of acquiring language. The course will also familiarize the student with problems and issues in the teaching of second languages.

4319 American English Dialects (Cross-listed as ENG 4319)

Pre-requisite(s): LING 3310, ENG 3310, ANT 3310 or SPA 3309 or consent of instructor.

Introduction to dialectology, focusing on the origins of American English dialects and their development through the spread of linguistic variation.

4V20 Independent Study in Linguistics

1 to 3 sem. hrs.

Pre-requisite(s): LING 3310, ENG 3310 or SPA 3309 and consent of instructor.

Supervised individual research and study of a linguistic subfield or linguistics problem. Repeat once with change of topic for maximum of six hours.

Management (MGT)

3301 Managing People in Organizations

Pre-requisite(s): Junior standing. Cumulative GPA of 2.75 or higher.
Not open to BBA students.

This course is a cross-section of topics related to interacting with and managing people at work. It is designed to introduce non-business students to a survey of concepts related to people in the workplace. This course highlights fundamental concepts related to individual behavior, groups, and organizational processes.

3305 Leadership & Organizational Behavior

Pre-requisite(s): Junior standing.

This course provides an introduction to the managerial and leadership processes through a study of the organization as a social system. Emphasis is placed on presenting practical skills that will facilitate the student's transition to the workplace. Topics examined include management and leadership philosophy, ethical decision making, employee motivation, work attitudes, teamwork and group dynamics, managerial communication, and organizational culture and change.

3320 Distribution Management

Pre-requisite(s): QBA 2302; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course focuses on the distribution process from point of manufacturer to the point of use. Major topics include: evolution and trends in distribution, structure of durable and non-durable goods industries, types of distribution intermediaries, customers and market segmentation, function performed by distributors and their strategic allies, common financial terminology used in distribution, fundamental elements of distributor finance, alternative performance measures, application of technology to the distribution process, and the like.

3325 Operations Management

Pre-requisite(s): A minimum grade of C in QBA 2302. Open only to BBA students.

A survey of the most critical aspects of managing the operation of a business in order to efficiently produce and deliver goods and services to the customer. Topics include decision making, productivity management, inventory analysis, quality assurance, project management, supply chain management, enterprise resource planning, scheduling, and constraint management. This course emphasizes the latest management practices and utilizes computer simulations and other experiential exercises as learning tools. Students also participate in a hands-on project that requires them to apply the concepts learned in class to a real-world organization.

3345 Introduction to Enterprise Systems Using SAP (Cross-listed as MIS 3345)

Pre-requisite(s): A minimum grade of C in MGT 3325.

This course utilizes SAP software to expose students to basic enterprise resource planning (ERP) concepts. Through this hands-on course, students will gain familiarity with the SAP interface and develop a better understanding of how ERP software integrates organizational data and key business processes to enhance organizational efficiency and decision-making, improve business intelligence, and enable cross-organizational linkages.

4305 Principled Leadership

Pre-requisite(s): Junior standing; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This class is designed to challenge students to consider the principles they use or will use to lead others and contribute to positive change. Participants will discuss principles and examine role models that live out virtues that serve as the basis for servant leadership and ethical behavior.

4320 Negotiating and Conflict Resolution

Pre-requisite(s): Only open to BBA students.

Enhances individual effectiveness in the workplace through the provision of an advanced understanding of negotiating through the development of specific negotiating skills. Discussions and skill-building exercises in the class are focused broadly and include informal and formal negotiations between multiple departments, and so on. Because effective negotiating is fundamental to an individual's survival and prosperity within an organization, knowledge of negotiating concepts and development of negotiation skills are critical. Fee: \$50

4321 Campus Leadership Practicum

Pre-requisite(s): MGT 3302 or 3305.

This course is a cross-section of topics related to interacting with and managing people at work. It is designed to introduce non-business students to a survey of concepts related to people in the workplace. This course highlights fundamental concepts related to individual behavior, groups, and organizational processes.

4330 Project Management (Cross-listed as MIS 4330)

Pre-requisite(s): A minimum grade of C in BUS 1305 (or equivalent competencies); and MGT 3325; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course covers concepts and issues important in effective project management including project planning, budgeting, scheduling, auditing, project termination, and the role of the project manager. Methodologies for monitoring and controlling projects, risk analysis, and resource allocation are also presented. The student will learn how to apply Microsoft Project software to real life projects and learn how to manage projects effectively in both single and multi-project environments. This course is also designed to help the student prepare for certification as a Project Management Professional (PMP).

4333 Procurement and Materials Management

Pre-requisite(s): MGT 3325 or concurrent enrollment; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course provides the student with the opportunity to analyze problems and issues encountered by managers as they consolidate buying power across the entire firm by aligning purchasing governance with corporate strategy, developing and communicating purchasing policies, streamlining tactical purchasing functions, and expanding the strategic responsibilities of purchasing. Mastery of the material presented in this course will enable the student to assist his or her firm in building, achieving, and sustaining purchasing organization.

4336 Human Resource Management

Pre-requisite(s): MGT 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of the human resource management profession. Specific functions to be studied include recruitment, selection, training and development, compensation, discipline, and equal opportunity laws and cases. Emphasis throughout is on the human resource manager's role in organizational effectiveness.

4337 Human Resource Staffing and Employee Relations

Pre-requisite(s): MGT 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course provides an overview of HR staffing systems from the acquisition of human resources through managing employee relations, with the aim of improving organizational effectiveness. Through hands-on activities and classroom discussions, students learn how to obtain and retain the right people in business. Topics such as labor market trends, job analysis, recruitment, interviewing, psychological testing, HR selection decision making, retention management, and labor relations are discussed. Major labor relations laws, grievance procedures, and labor-management cooperation are also covered.

4338 Compensation Management

Pre-requisite(s): MGT 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of the total reward system. Topics examined include job content and context factors, job evaluation, wage surveys, wage and salary administration, incentives and non-cash benefits, and performance appraisals. Emphasis is on developing and maintaining an adequate and equitable compensation system for all employees.

4340 Technology Entrepreneurship (Cross-Listed as ENT 4340)

See ENT 4340 for course information.

4345 Global Supply Chain Management

Pre-requisite(s): MGT 3325; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Focuses on the principles and techniques used by managers to plan, schedule, control and evaluate the supply chain management strategies of world-class organizations. Good supply chain management practices will lead to a competitive advantage, while poor practices will hurt firm performance. Methodologies for supply chain analysis are developed and applied to topics such as designing the supply chain network, planning demand and supply, planning and managing inventories, and coordination and technology in the supply chains. Special attention is given to understanding facilities, inventory, transportation, and information as key drivers of supply chain performance. Fee: \$60

4353 Social Entrepreneurship and Economic Development

Pre-requisite(s): Junior standing; not open to pre-business students.

Is capitalism good for the poor? This course examines the morality of capitalism, the role of institutions in perpetuating or eliminating absolute poverty, and the contextual challenges of entrepreneurship. Recognizing the socio-cultural, political, economic, and technological challenges of doing business in the third world, we use organizational theory to design for-profit ventures that use appropriate technologies to create sustainable solutions to social problems. Course projects are intended to produce organizations that will be partially owned and operated by the members of the communities that benefit from their goods and services.

4355 Management Consulting

Pre-requisite(s): MGT 3325; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course is designed for individuals who are interested in business and management consulting. The course emphasizes the development of critical analysis skills that are useful in analyzing organizations and systems as well as resolving more personal problems and conflicts. Specific topics include cause/effect analysis, identifying root causes of problems, resolving critical conflicts, developing creative breakthrough solutions, and identifying and overcoming obstacles that prevent the implementation of solutions. Students apply the concepts learned in class to analyze actual organizations. Practicing management consultants are invited as guest speakers.

4360 Managerial Field Experience

Pre-requisite(s): MGT 4336 and 4350; not open to pre-business students.

A practicum course that provides students with opportunities to apply concepts from previous management courses. Student teams work with managers to assist in routine management of a unit and/or to assist in solving specific managerial problems. Problems may be related to employee motivation, interdepartmental coordination, resistance to change, and so on.

4395 Internship in Management

The internship provides a framework for students to be introspective about their personal growth objectives, understand their strengths and weaknesses in an organizational context, improve their professional maturity, develop their ability to assess and articulate their value to potential employers, evaluate their choices with respect to industries, companies and positions, as well as further clarify their career passion and prospective about their future career direction.

4396 Supply Chain Management Internship

Pre-requisite(s): Supply Chain Management majors only. Not open to pre-business students.

Internship in supply chain management; fulfilled in cooperation with a firm that provides the student opportunities to participate directly in activities such as distribution, purchasing and materials management, and supply chain management.

4398 Special Studies in Management

Pre-requisite(s): Consent of instructor and chair; not open to pre-business students.

Independent study under the direct supervision of a management department faculty member.

Management Information Systems (MIS)**3150 Topics in Information Systems**

Pre-requisite(s): A minimum grade of C in BUS 1305; or consent of instructor.

A study of selected areas of information systems, including operating systems, personal and business application software, considerations in hardware and software, acquisition connectivity, multimedia, and other current issues. This course may be taken for a maximum of six semester hours if topic is different (or if each topic is different).

3301 Introduction to Business Programming Logic

Pre-requisite(s): Credit or concurrent enrollment in MIS 3305, and a minimum grade of C in QBA 2302; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Study of object-oriented programming that focuses on developing business applications using a programming language like Visual Basic.Net. Topics include programming basics, typical programming structures, data structures, and error analysis.

3305 Management Information Systems

Pre-requisite(s): A minimum grade of C in QBA 2302. Open only to BBA students.

Examines the use of information and communication technologies (ICT) in organizational settings and gives a balanced perspective of MIS from the standpoint of the non-technical manager. Topics include acquisition, management, use and control of information systems and their impact on individuals, organizations and society. Emphasis is on the business manager's role in developing and managing information systems and the uses of ICT to create competitive advantage. Fee: \$50

3320 Systems Analysis and Design

Pre-requisite(s): Credit or concurrent enrollment in MIS 3301 and 3305; a minimum grade of C in QBA 2302; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of the Systems Development Life Cycle with focus on the planning, analysis, and design phases. Explores the various tools and techniques used by systems analysts for process and data modeling as well as user interface design.

3332 Control and Audit of Information Systems (Cross-listed as ACC 3331)

Pre-requisite(s): A minimum grade of C in ACC 2304.

Emphasizes the control and audit of information systems. Topics include accounting systems, controls and transaction processing, and IT auditing. The course should help students develop an appreciation of and motivation for proper information processing practices and controls.

3341 Developing Client Server Applications

Pre-requisite(s): Minimum grade of C or better in both MIS 3301 and 3320.

The course utilizes high-level object-oriented development tools such as Visual Studio.NET to teach application development techniques for local client-server and web-based environments. Topics such as server-side scripting, web design, web page security, and database access will be undertaken to enable students to build robust business software applications. Fee: \$50

3345 Introduction to Enterprise Systems Using SAP (Cross-listed as MGT 3345)

See MGT 3345 for course information.

3350 Introduction to Data Management and CRM

Pre-requisite(s): Students should have taken BUS 1305 or have general proficiency in MS Office tools.

Open to all business majors, this course is designed to provide students with hands-on data management skills that will facilitate the effective use of Customer Relationship Management (CRM) technology. Key components of this course include information modeling and database creation, querying and analyzing organizational data, and the management and analysis of customer information using CRM technology.

4319 Mobile Application Development

Pre-requisite(s): Upper-level standing; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Study of applications development in a cross-platform mobile computing environment

4320 Java Development

Pre-requisite(s): Grades of C or better in MIS 3301 and 3320; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Introduction to client-side application development using the Java programming language. Topics include object-oriented design, essential language syntax, and developing user, file, and Internet interfaces for business systems to support e-commerce initiatives.

4321 Business Systems Development

Pre-requisite(s): Grades of C or better in both MIS 3301 and 3320; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Concentrates on business application development using traditional object-oriented development tools. Topics include essential language syntax, class modeling, and developing user, file, and database interfaces for business systems.

4330 Project Management (Cross-listed as MGT 4330)

See MGT 4330 for course information.

4340 Foundations of Database System Development

Pre-requisite(s): Grades of C or better in both MIS 3301 and 3320; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Concentrates on implementing systems and databases including physical database systems, data access, and database applications. Topics include: design issues; SQL; database administration; database integrity; security; selection; and implementation.

4342 Fundamentals of Information Security

Pre-requisite(s): Grades of C or better in both MIS 3301 and 3320; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course provides students with a common body of knowledge in key information security knowledge domains. Topics include access controls; networks and telecommunications basics; cryptography; malicious attacks, threats, and vulnerabilities; monitoring and analysis; risk, response, and recovery; and security operations and administration. The course prepares entry-level professionals in both technical and non-technical disciplines with the key skills and concepts needed to contribute to the information security posture of their organization.

4343 Advanced Database Management

Pre-requisite(s): MIS 4340; not open to pre-business students.

This course covers advanced topics in database design and implementation, including the storage, access, and management of business information to facilitate decision-making. Topics may include application data access using PL/SQL, advanced topics in database systems such as XML and data warehouses, and database administration topics.

4344 Business Intelligence

Pre-requisite(s): A minimum grade of C in QBA 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Business Intelligence (BI) is the discovery of patterns and relationships hidden in large volumes of data. This hands-on course is designed to provide practical analytic skills that may be applied in almost any workplace. The course explores the analytical techniques for making intelligent business decisions in data-rich organizations. A key component of the course is the use of BI software tools with techniques such as correlation analysis, data visualization, linear regression, classification, and clustering to address common problems in marketing, customer relationship management, risk management, finance, and operations.

4346 Foundations of Data Warehousing

Pre-requisite(s): MIS 4340 or consent of instructor; only open to BBA students.

This course covers techniques used to implement data structures that are optimized for organizational decision-making. A hands-on approach is used to cover the following data warehousing (DW) topics: basic concepts and architectures, DW modeling and physical design, ETL processes, and real-world DW uses such as OLAP queries and reporting tools and ad-hoc analysis of OLAP data.

4350 Cyber Security Technology Factors

Pre-requisite(s): MIS 4342 or its equivalent; only open to BBA students.

This course provides a roadmap of the paths available to organizations for deploying various security devices and tools. The course goes beyond the narrow technical view and offers a full context for the deployment of security technologies. Six key areas of network security will be covered, with each section covering a tool that will play a part in a company's overall information assurance program. Fee: \$50

4355 Decision Making Using Excel

Pre-requisite(s): MIS 3305 or consent of instructor.

A computer applications course providing the tools necessary for manipulating, sharing, and presenting data to support business decision making. Topical coverage includes data analysis, multiple applications linking, simulation modeling, and decision making under uncertainty.

4360 Fund of Data Visualization

Pre-requisite(s): QBA 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Covers basic theories of cognition and data visualization, including understanding how data types influence the decision to use a particular representation, when to use various chart types, how to structure data visualizations, and visualization evaluation. Emphasis on ethical use of visualizations.

4395 Internship in Information Systems**4V98 Special Studies in Information Systems 1 to 6 sem. hrs.**

Pre-requisite(s): Consent of instructor; not open to pre-business students.

This course may be taken for one to six semester hours of credit.

Marketing (MKT)**3301 Marketing Concepts**

Pre-requisite(s): Junior standing. Cumulative GPA of 2.75 or higher. Not open to BBA students.

This course is a foundational marketing course that features a decision-oriented overview of marketing in modern organizations. Students will be exposed to a broad introduction of marketing concepts, the role of marketing in society and in the firm, and the various factors that influence marketing decision making.

3305 Principles of Marketing

Pre-requisite(s): Junior standing.

Designed to present a picture of the development and present status of our marketing system, to analyze the marketing task, and to examine the major policies that underlie the various activities of marketing institutions.

3310 Professional Selling and Communications

Pre-requisite(s): Only open to BBA students. Not open to Pre-business majors.

This course is organized around the ethical process of making informative and persuasive verbal presentations. Topics include presentation materials and formats, handling objections, reaching decisions, and servicing customers. The development of such skills is useful to any member of an organization who makes a presentation. Case study, videotaped role playing, professional speakers, and group interactions project the student into the real world of the business person and salesperson.

3320 Advertising Procedures (Cross-listed as JOU 3320)

Pre-requisite(s): MKT 3305.

A survey of the entire field of advertising stressing knowledge of history, principles, objectives, and the psychological basis of advertising. Research techniques, media selection, campaigns, production methods, and space buying are treated in survey style.

3325 Consumer Behavior

Pre-requisite(s): Only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchases of goods and services. The purchaser's psychological, economic, and sociocultural actions and reactions are stressed as they relate to a better understanding of consumption.

3330 Marketing Research

Pre-requisite(s): MKT 3305 and a minimum grade of C in QBA 2302.

Systematic gathering, recording, and analyzing of data about problems relating to the marketing of goods and services. Emphasis is placed on the process of conducting marketing research and the relevant issues at each stage in the process and the role that generated data plays in aiding management decision making. Designing research studies, constructing questionnaires, choosing samples, analyzing research results, preparing reports, and improving the student's overall problem-solving skills are stressed.

3340 Nonprofit Marketing

Pre-requisite(s): Only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Applies marketing concepts to objectives of nonprofit organizations. Special attention is paid to fund raising, promotion, and strategic planning in the arts, education, and social issues.

3341 Values Based Leadership in Sports

Pre-requisite(s): Minimum grade of C in MKT 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course is designed to investigate the myriad of issues and ethical dilemmas facing the sports and fitness industry. Individuals will be challenged to examine personal values as they relate to sport and its application in our society.

4199 Professional Selling Internship

Pre-requisite(s): MKT 3310 and consent of instructor; only open to BBA students.

Internship in Professional Selling fulfilled in cooperation with a corporate partner in the area of sales; with the sponsoring company the student participates in formal sales training and education and directed activities in sales, promotion, and customer relationship management.

4310 Sales Force Management/Leadership

Pre-requisite(s): MKT 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course deals with an examination of the common problems confronting the sales manager. Topics include recruiting, selecting, motivating, leadership and supervision, performance evaluation and coaching. Emphasis is placed on the personal and ethical side of management throughout the course. Case study, videotaped role playing, and professional speakers enhance the learning process.

4311 Professional Selling and Communications II

Pre-requisite(s): MKT 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This class focuses on an in-depth study of advanced selling and sales management issues including developing and maintaining long-term customer relationships, alternative strategies, international sales strategies, national account management, supply chain management, financial analysis and sales force ethics. Case study, videotaped role playing, and professional speakers are used throughout the course.

4315 Retail Store Management

Pre-requisite(s): MKT 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Considers architecture of the store, layout, buying, pricing, display, sales promotion, stock control, and consumer services in general.

4320 Marketing Channels

Pre-requisite(s): A minimum grade of B- in FIN 3310; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course focuses on the definitions, dimensions, and management of marketing channels representing the various companies involved in bringing products and services from their point of origin to consumption. Representing the company's routes to market, marketing channels are viewed as an interorganizational system involved in the task of making products and services available for consumption. The main emphasis of this course is on the initial design of such systems, and the on-going management of relationships between system participants. The course is organized around three key modules: understanding the nature of marketing channels, managing channel relationships, and examining major types of channel institutions.

4321 Advertising Campaigns

Pre-requisite(s): MKT 3320; not open to pre-business students.

A managerial approach to promotional campaign development with an emphasis on advertising strategy as a component of the total marketing mix. Students apply research techniques to target audience identification, media planning, and creative execution. A complete campaign will be designed for a specified client.

4324 European Business Seminar

Pre-requisite(s): MKT 3305; BBA students must be admitted to the Business School in order to take this course.

This seminar is conducted in Europe where students will participate in lecture/discussion sessions with executives of various multi-national and global corporations. Students will study the impact of the European Union and the European Common Currency (Euro) on world trade. Students will be exposed to marketing practices in several European countries and will gain insight into the cultural, social and political environments of each country visited.

4325 International Marketing (Cross-listed as INB 4325)

Pre-requisite(s): MKT 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

A study of the international dimensions of American enterprise and the background of the international environment. Includes international trade concepts, cultural dynamics, business customs, multinational markets, development markets, and influence of political, legal, and geographic factors on international marketing.

4330 Marketing Analysis and Decision Making

Pre-requisite(s): MKT 3305; either FIN 3309 or 3310; and nine hours of additional marketing courses; only open to BBA students.

Marketing Analysis is the capstone marketing course for marketing majors. The purpose of the course is to help the student develop his/her ability to use the knowledge and analytical skills gained in other marketing and business courses. Emphasis will be on analysis and decision making utilizing a variety of cases and business situations.

4340 Strategic Brand Management

Pre-requisite(s): MKT 3325 and MKT 3330; only open to BBA students.

An advanced Marketing elective that addresses important branding decisions faced by an organization. The course provides the student with an increased understanding of the important issues in planning and evaluating branding strategies; the appropriate theories, models, and other tools to make better branding decisions; and a forum to apply these principles.

4341 Professional Selling & Communications for Sports II

Pre-requisite(s): MKT 3310; only open to BBA students.

In-depth study of advanced selling and sales management issues pertaining to sports products and services. Includes developing/maintaining long-term customer relationships, account management, supply chain issues, financial analysis, and sales force ethics. Learning tools include case study, role playing, and interaction with executives in professional sports. Fee: \$75

4342 Venue and Event Marketing

Pre-requisite(s): Consent of department chair and senior standing; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

Instills the training and skills required to research, plan, schedule, organize, and market events and venues. Provides logistics and the theoretical understanding needed to understand customers and effectively manage events and facilities. Includes instruction related to managing vendor contracts, event promotion, and event management technology.

4350 Digital Marketing

Pre-requisite(s): MKT 3330; only open to BBA students.

This course is designed to provide a well-rounded overview of digital marketing strategies. A major focus of the course will be in the practical application of tactics in support of basic business strategies as they apply to the online world of marketing, including search engine optimization, social media sites, content development, email and emerging technologies, among other digital based topics. Particular focus will be given to creation of content, management of campaigns, engagement with consumers, and measurements of success for digital marketers.

4360 Customer Analytics

Pre-requisite(s): MKT 3330 or QBA 3305; only open to BBA students; BBA students must be admitted to the Business School in order to take this course.

This course will enable students to: apply basic skills in data manipulation and visualization using various software packages, analyze customer data with the help of different statistical tools and techniques and use the findings from data analyses to make managerially relevant marketing decisions anchored in Customer Analytics.

4395 Marketing Internship

Pre-requisite(s): Upper level standing; not open to pre-business students. Marketing majors only.

Internship in Marketing fulfilled in cooperation with an approved organization. With the sponsoring organization the student participates in formal training and education and directed activities in marketing, promotion, and customer relationship management.

4396 Sports Marketing Internship I

Pre-requisite(s): Must be a major in Sports Sponsorship and Sales or consent of department chair.

Internship in sports marketing field; typically fulfilled in cooperation with the University's Athletic Department; student participates in directed activities pertinent to personal selling, promotion, direct response advertising, and customer relationship management.

4397 Sports Marketing Internship II

Pre-requisite(s): Must be a major in sports sponsorship and sales or consent of department chair.

Internship in sports marketing field; fulfilled in cooperation with either a professional sports team or corporate sports sponsor; student participates in directed activities pertinent to personal selling, promotion, direct response advertising, and customer relationship management.

4398 Directed Studies in Marketing

Pre-requisite(s): Consent of marketing adviser and department chair; marketing majors only; not open to pre-business students.

Independent study under the direct supervision of a marketing department faculty member. Applications must be submitted and approved prior to registration.

Mathematics (MTH)

1220 Algebra Review

Pre-requisite(s): Consent of Instructor

Algebra review for students who need to take MTH 1320 (pre-calculus) but are not ready for MTH 1320. Topics include solving equations and inequalities, polynomials, rational functions, exponential functions, and logarithms. Begins 5 weeks into the semester. Does not apply on major. Does not satisfy the mathematics requirement for any degree.

1301 Ideas in Mathematics

Significant ideas of mathematics. Topics will be chosen from: voting theory, apportionment, financial analysis, linear and exponential growth, statistics and opinion polls. Designed primarily for liberal arts students. Does not apply toward the major.

1308 Pre-calculus for Business Students

A study of the types of function that arise in business calculus, including linear, quadratic, and other polynomial functions, rational functions, and exponential and logarithmic functions. Does not apply on the Arts and Sciences mathematics requirement nor on a mathematics major. Credit may not be received after receiving credit in MTH 1320.

1309 Calculus for Business Students

Pre-requisite(s): A grade of C or better in MTH 1320 or MTH 1308 or a satisfactory performance on the SAT or RSAT or the ACT or the ALEKS.

Differentiation of rational, exponential, and logarithmic functions of one and several variables, integration of functions of one variable, and applications to business problems. Does not apply on the major. Credit may not be received after receiving credit in MTH 1321.

1310 Introduction to Discrete Mathematics

Set theory, relations, functions, matrices, number systems, combinatorics, probability, and Boolean algebra. Does not apply toward the major.

1315 Patterns, Relationships, and Number Concepts

Advanced perspectives on topics taught in grades EC-8 including number concepts, patterns, and functions. Does not satisfy the liberal arts mathematics requirement and does not apply toward the mathematics major. Fee: \$50

1316 Geometry and Measurement

Pre-requisite(s): A grade of C or above in MTH 1315.

A continuation of MTH 1315. Topics in MTH 1316 will be geometric figures, motions of geometry, and measurement. Does not apply toward the mathematics major.

1320 Pre-calculus Mathematics

Pre-requisite(s): Participation in an online learning module and earning a minimum score at the conclusion of the module.

Basic concepts of college algebra, trigonometry, and elementary functions and an introduction to limits. Satisfactory performance on a department examination. Designed as preparation for MTH 1321; does not apply on the major.

1321 Calculus I

Pre-requisite(s): Participation in an online learning module and earning a minimum score at the conclusion of the module.

Differential calculus of a single variable. Introduction to the definite integral and the Fundamental Theorem of Calculus.

1322 Calculus II

Pre-requisite(s): A grade of C or above in MTH 1321.

Integral calculus of a single variable, differential equations, slope fields, and power series.

2311 Linear Algebra

Pre-requisite(s): A grade of C or above in MTH 1322.

Vectors, matrix operations, linear transformations, fundamental properties of vector spaces, systems of linear equations, eigenvalues, and eigenvectors.

2316 Algebra and Functions

Pre-requisite(s): A grade of C or above in MTH 1316 or concurrent enrollment.

Designed for the prospective teacher seeking mathematics certification for grades 4-8. A study of the algebraic and transcendental functions which play a primary role in calculus. An emphasis will be placed on mathematical models which arise from lab-based activities, on connections to areas within and outside of mathematics, and on developing the ability to communicate mathematical ideas to individuals at various levels. Does not apply toward the mathematics major.

2317 Functions and the Mathematics of Change

Pre-requisite(s): A grade of C or above in MTH 2316.

Designed for the prospective teacher seeking mathematics certification for grades 4-8. A continuation of MTH 2316. An investigation of the derivative and integral from an algebraic, geometric, and numerical perspective. Credit may not be received after completion of MTH 1321. Does not apply toward the mathematics major.

2321 Calculus III

Pre-requisite(s): A grade of C or above in MTH 1322.

Differential and integral calculus of several variables, Green's Theorem.

2V90 Introduction to Research in Mathematics**1 to 3 sem. hrs.**

Pre-requisite(s): Consent of Instructor.

Beginning independent study or research in topics not available in other courses. May be repeated for a maximum of 3 hours.

3300 Foundations of Mathematics

Pre-requisite(s): A grade of C or above in MTH 1321.

Core concepts of advanced mathematics: proofs, induction, sets, functions, equivalence relations, divisibility, modular arithmetic, real numbers, sequences and limits.

3312 Foundations of Combinatorics and Algebra

Pre-requisite(s): A grade of C or above in MTH 3300 or departmental consent required.

Elementary counting principles, fundamental properties of the integers, the ring of integers modulo n , rings of polynomials, and an introduction to groups, rings and fields.

3318 Data and Chance

Pre-requisite(s): A grade of C or above in MTH 1316.

Designed for the prospective teacher seeking an EC-4 mathematics certification. Core ideas from probability and statistics, including collection of data, patterns in data, and inference from data, in an active lab-like environment. Credit may not be received after completion of MTH 2381 or MTH 3381. Does not apply toward the mathematics major.

3323 Introduction to Analysis

Pre-requisite(s): A grade of C or above in MTH 2321 and MTH 3300.

A rigorous treatment of the real number system, sequences of real numbers, limits, continuous functions, and elements of differentiation and integration.

3324 Numerical Methods (Cross-listed as CSI 3324)

See CSI 3324 for course information. Fee: \$50

3325 Ordinary Differential Equations

Pre-requisite(s): A grade of C or above in MTH 2321 or concurrent enrollment.

Differential equations of first order, linear equations of order two and higher, introduction to power series methods, elements of the Laplace Transform, some facts from linear algebra and systems of differential equations.

3326 Partial Differential Equations

Pre-requisite(s): A grade of C or above in MTH 2321 and 3325.

Partial differential equations of physics, the method of separation of variables, orthogonal sets of functions, Fourier Series, boundary value problems, Fourier integrals and applications.

3340 Mathematics through Technology

Pre-requisite(s): Credit for twelve hours of mathematics courses, at least three hours of which are at the 2000 level or above. (This Pre-requisite(s) cannot be satisfied using any hours transferred in under the generic titles MTH 1000 or MTH 2000.)

Designed for the prospective mathematics teacher seeking certification for grades 4-8 or 8-12. Use of technology to explore, communicate, and reinforce mathematical concepts and problem solving from several areas of mathematics. Attention given to graphing calculators, interactive geometry computer packages, computer-based algebra packages, and spreadsheets or statistical packages. Written and oral presentations. Does not apply toward the mathematics major.

3350 Structure of Modern Geometry

Pre-requisite(s): A grade of C or above in MTH 2311 or 2317.

A study of the foundations of Euclidean geometry by synthetic methods with a brief introduction to non-Euclidean geometry.

3370 Mathematical Methods of Operations Research

Pre-requisite(s): A grade of C or above in MTH 2311.

A survey of models and methods used in operations research. Topics include linear programming, dynamic programming, and game theory, with emphasis on the construction of mathematical models for problems arising in a variety of applied areas and an introduction to basic solution techniques.

3374 Introduction to Mathematical Modeling

Pre-requisite(s): A grade of C or above in MTH 1322 or in both MTH 2317 and 3318.

An introduction to the process of mathematical modeling, including problem identification, model construction, model selection, simulation, and model verification. Individual and team projects.

3V90 Advanced Undergraduate Research in Mathematics 1 to 3 sem. hrs.

Pre-requisite(s): Consent of Instructor.

Advanced independent study or research in topics not available in other courses. May be repeated for a maximum of 3 hours.

4312 Cryptology

Pre-requisite(s): A grade of C or above MTH 3300 or CSI 2350; or consent of instructor.

Introduction to cryptology, the study of select codes and ciphers. Included is a historical context, a survey of modern crypto systems, and an exposition of the role of mathematical topics such as number theory and elliptic curves in the subject. Mathematical software will be available.

4313 Number Theory

Pre-requisite(s): A grade of C or above in MTH 3300 or consent of instructor.

Algebraic number theory including linear Diophantine equations, distribution of primes, congruence, number theoretic functions, Euler's and Wilson's theorems, Pythagorean triples, Mersenne and Fermat primes, Fibonacci numbers, and sums of squares. Continued fractions, quadratic reciprocity, Mobius inversion, Bertrand's postulate, prime number theorem, and zeta function may also be included.

4314 Abstract Algebra

Pre-requisite(s): A grade of C or above in MTH 2311 and MTH 3312; or consent of instructor.

Fundamentals of group, ring, and field theory. Topics include permutation groups, group and ring homomorphisms, direct products of groups and rings, quotient objects, integral domains, field of quotients, polynomial rings, unique factorization domains, extension fields, and finite fields.

4316 Linear Algebra and Matrix Theory

Pre-requisite(s): A grade of C or above in MTH 2311 and MTH 3300.

Matrix calculus, eigenvalues and eigenvectors, canonical forms, orthogonal and unitary transformation, and quadratic forms. Applications of these concepts.

4322 Numerical Analysis (Cross-listed as CSI 4322)

Pre-requisite(s): A grade of C or above in MTH 2321.

Numerical evaluation of derivatives and integrals, solution of algebraic and differential equations, and approximation theory.

4324 Systems of Ordinary Differential Equations

Pre-requisite(s): MTH 3325 and MTH 2311.

A continuation of MTH 3325 with emphasis on systems of ordinary differential equations. Topics include matrix and first order linear systems of differential equations, eigenvalues and eigenvectors, two-dimensional autonomous systems, critical point analysis, phase plane analysis, Liapunov, stability theory, limit cycles and Poincare-Bendixson theorem, periodic solutions, perturbation methods, and some fixed-point theory.

4326 Advanced Calculus I

Pre-requisite(s): A grade of C or above in MTH 2321 and MTH 3323 or consent of instructor.

The real and complex number systems, basic topology, numerical sequences and series, continuity, differentiation, integration, sequences and series of functions.

4327 Advanced Calculus II

Pre-requisite(s): A grade of C or above in MTH 4326.

Line and surface integrals, Green, Gauss, Stokes theorems with applications, Fourier series and integrals, functions defined by integrals, introduction to complex functions.

4328 Numerical Linear Algebra (Cross-listed as CSI 4328)

Pre-requisite(s): A grade of C or above in MTH 2311 and 3324.

Numerical methods for solution of linear equations, eigenvalue problems, and least squares problems, including sparse matrix techniques with applications to partial equations.

4329 Theory of Functions of a Complex Variable

Pre-requisite(s): A grade of C or above in MTH 2321.

Number systems: the complex plane; fractions, powers, and roots; analytic functions; elementary functions; complex integration; power series; mapping by elementary functions; calculus of residues.

4343 Topics in Mathematics for Prospective Teachers

Pre-requisite(s): A grade of C or above in MTH 3312, 3323, or 3350.

Prospective middle and secondary school mathematics teachers engage in an in-depth analysis of mathematical topics encountered in the middle and secondary curriculum. Does not apply toward the mathematics major.

4375 Linear Programming

Pre-requisite(s): A grade of C or above in MTH 2311 and 3370.

An introduction to the theory and applications of linear programming, including the simplex algorithm, duality, sensitivity analysis, parametric linear programming, and integer programming, with applications to transportation, allocation problems, and game theory.

4V90 Topics in Mathematics

1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor.

Topics in contemporary mathematics not covered in other courses. May be repeated once for credit if content is different.

Mechanical Engineering (ME)**2320 Statics**

Pre-requisite(s): MTH 1321 and a grade of B or higher in EGR 1302.

Study of forces, moments, free-body diagrams, friction, equilibrium, first and second moments of lines, centers of pressure, mass and gravity, and moments of inertia. (3-0)

2321 Dynamics

Pre-requisite(s): ME 2320 and MTH 1322.

Kinematics and kinetics of particles and rigid bodies including Newton's Second Law, work-energy methods, impulse-momentum, and central and oblique impact. (3-0)

2345 Thermodynamics

Pre-requisite(s): MTH 1322, B or better in EGR 1302.

Thermodynamic properties, heat and work, first and second laws, processes, ideal and non-ideal cycles. (3-0)

3122 Materials and Manufacturing Processes Lab

Pre-requisite(s): ME 3320 and credit or concurrent enrollment in ME 3322.

Laboratory experiments in strength of materials, property of materials, and manufacturing processes. Application of statistics and probability to material properties and manufacturing. (0-3) Fee: \$150

3320 Strength of Materials

Pre-requisite(s): ME 2320 and MTH 2321.

Introduction of stress and strain, stress transformations, analysis of stresses, strain, and deflections in axial members, beams, and torsional shafts. Analysis of pressure vessels. (3-0) Fee: \$50

3321 Fluid Mechanics

Pre-requisite(s): ME 2345 and MTH 3326.

Introductory concepts of fluid motions, fluid statics, control volume forms of basic principles, and applications basic principles of fluid mechanics to problems in viscous and compressible flow. (3-0) Fee: \$50

3322 Mechanical Engineering Materials and Manufacturing Processes

Pre-requisite(s): ME 3320.

Properties of the principal families of materials used in mechanical engineering design with an introduction to the manufacturing processes used to convert these materials into finished products. (3-0) Fee: \$50

3323 Machine Design

Pre-requisite(s): Credit or concurrent enrollment in ME 3322.

The fundamentals of machine elements in mechanical design. Includes the analysis of components under static and fatigue loadings, and the analysis, properties, and selection of machine elements such as shafts, gears, belts, chains, brakes, clutches, bearings, screw drives, and fasteners. (3-0) Fee: \$50

3345 Advanced Thermodynamics

Pre-requisite(s): ME 2345.

Second law analysis, gas power cycles, vapor power cycles, refrigeration cycles, property relations, gas mixtures, gas-vapor mixtures, combustion, design of cycles. (3-0)

3420 Instrumentation and Measurements

Pre-requisite(s): ELC 2320 or ELC 2330, and ME 2345 and STA 3381.

Introductory mechanical engineering laboratory experience: measurement system concepts, statistical and uncertainty analyses, survey of measurement devices, experimental design and planning.

4305 Sustainable Engineering

Pre-requisite(s): EGR 3380

This is an introduction to the context, concepts, and practice of sustainable engineering, and the importance of sustainable systems in the modern world. Topics will include an overview of resources and sustainability, technological systems, complexity, industrial ecology, green design principles, and life cycle assessment.

4320 Computer-Aided Structural Analysis

Pre-requisite(s): ME 3320.

Structural analysis using the matrix stiffness method with applications to 2-dimensional and 3-dimensional beams, trusses and plates. (3-0)

4322 Computer-Aided Engineering and Design

Pre-requisite(s): EGR 3380.

Design and analysis of engineering components and systems using interactive computer programs with emphasis on computer simulation. (3-0)
Fee: \$100

4323 Mechanical Vibrations

Pre-requisite(s): ME 2321, 3320 and MTH 3325.

The theory and analysis of vibrating systems including single and multi-degrees of freedom, free and forced, vibrations, with and without damping. (3-0)

4324 Introduction to Finite Element Methods

Pre-requisite(s): Credit or concurrent enrollment in MTH 3326.

Introduction to the basic theory and techniques of finite element analysis beginning from energy concepts and the foundational constitutive equations. Engineering applications will focus on one- and two-dimensional formulations for classical beams, frames, trusses and electrical network applications. Introduction to typical workflow of finite element analysis using modern computer technologies. (3-0) Fee: \$100

4325 Dynamic Systems

Pre-requisite(s): ME 2321, MTH 2311, and 3325.

Theory, analysis and simulation of dynamic systems including application of Newton's Laws and conservation of energy to model single and multiple degree-of-freedom mechanical and other dynamic engineering systems. Solutions obtained using advanced engineering mathematics and computational software. Fee: \$50

4327 Numerical Methods for Engineers

Pre-requisite(s): MTH 2311 and 3326.

Introduction to engineering computational methods for design, from theory to algorithm to implementation. The course will discuss the following numerical methods from the engineering design perspective: roots of equations, optimization, linear systems, integration and differentiation, curve-fitting, and systems of ordinary differential equations. (3-0) Fee: \$50

4330 Introduction to Robotics (Cross-listed as ELC 4330)

See ELC 4330 for course information.

4335 Mechanical Engineering Laboratory

Pre-requisite(s): ME 3345, 4345, ENG 3300 and STA 3381.

Measurement of fluid flow, heat transfer, power and other properties of mechanical equipment. Design of experiments, selection and use of data acquisition systems, data reporting and presentation. (1-6) Fee: \$150

4336 Energy Systems Design

Pre-requisite(s): Credit or concurrent enrollment in ME 4345.

Design and analysis of thermal energy systems such as pipe networks, HVAC systems, and steam power plants. Specification of energy system components such as pumps, pipes, control valves, and heat exchangers. (3-0)

4337 Introduction to Computational Fluid Dynamics

Pre-requisite(s): ME 3321.

Study of numerical methods tailored to solve thermo-fluids governing equations. Classification of partial differential equation (PDE). Finite difference method. Basic concepts of discretization, consistency, and stability. Applications of numerical methods to selected model PDE. Numerical methods for inviscid flow, boundary-layer flow, and the Navier-Stokes equations. supersonic compressible and subsonic incompressible flows.

4344 Composite Materials

Pre-requisite(s): ME 3322.

Introduction to advanced fiber-reinforced composite materials for engineering design. Topics include applications, material properties, stress analysis techniques, failure theories, and design methodologies. (3-0)

4345 Heat Transfer

Pre-requisite(s): ME 3321.

Steady and unsteady heat conduction including numerical solutions, thermal boundary layer concepts and applications to free and forced convection. Thermal radiation concepts. Heat exchanger design. (3-0) Fee: \$50

4346 Introduction to Aeronautics

Pre-requisite(s): Upper division admission.

Introduces the applied science of atmospheric flight. The course teaches about airplanes and how they fly from a design and application perspective. Included are topics in fluid dynamics, airfoil and wing theory, aircraft performance, stability, and aircraft design.

4347 Analysis and Design of Propulsion Systems

Pre-requisite(s): ME 3321 and 3345.

Introduction to compressible flow, including flows with simple area change, heat addition, friction, and shock waves. Analysis, parametric design, and performance of ramjets, turbojets, turbofans, and turboprops. Introduction to the operating principles of major engine components. Introduction to rockets. (3-0)

4349 Aircraft Structural Analysis

Pre-requisite(s): ME 3320 and 3322.

Introduction to aircraft structures, including semi-monocoque and thin-walled structures, and the analysis techniques for these specialized structures. Understand the basis for airworthiness certification, aircraft loads, and design considerations in aerospace structures. Topics include elasticity, torsion, bending and shear stresses in thin walled structures; shear flow, and shear center. Fee: \$50

4356 Introduction to Space Flight

An interdisciplinary introduction to the basics, concepts, methods, and applications of space flight. Topics include fundamental principles, history, space environment, orbital mechanics, launch vehicles, propulsion systems, spacecraft (e.g., satellites, probes, space stations), applications (Earth observation, astronomy, interplanetary exploration, commercial utilization), international space efforts, regulations, and future activities.

4360 Renewable Energy Devices

This course is designed for senior undergraduate students from engineering disciplines and is intended to educate students in the design and application of various renewable energy sources, materials, and devices. It will introduce the basic concepts, principles, potential, and limitations of several energy conversion and storage devices with a focus on solar cells, fuel cells, batteries, and supercapacitors, with real world examples.

4377 Solar Energy (Cross-listed as ELC 4377)

See ELC 4377 for course information.

4382 Selection of Materials and Manufacturing Processes in Design

Pre-requisite(s): ME 3320 (or equivalent), ME 3322 (or equivalent), and ME 3323 (or equivalent).

Systematic approach for selection of materials and manufacturing process in design that balances performance requirements with cost of materials and manufacturing. Material properties, manufacturing processes and types of materials. Advanced computer software and case studies are used to illustrate application of principles. (3-0) Fee: \$50

4384 Engineering with Plastics

Pre-requisite(s): ME 3322 or equivalent.

Introduction to engineering plastics, including manufacturing process and mechanical properties, elastic and viscoelastic behavior of polymers and polymeric composites, predicting long-term behavior from short-term tests using time-temperature-superposition, relating chemical structure to mechanical properties for thermosets and amorphous or semi-crystalline thermoplastics, environmental stress cracking in polymers, relating processing to mechanical properties, introduction to injection molding, extrusion, thermoforming, compression molding, and blow molding.

4385 Failure Analysis and Product Liability

Pre-requisite(s): ME 3322.

How components and systems fail; how to determine the probable cause of specific failures; practical skills to do failure analyses; product liability as it applies to product failures and litigation. Class time and homework assignment will use principally a case studies approach.

4386 Properties and Processing of Electronic Materials

Pre-requisite(s): ME 3322.

Modern microelectronic technologies utilize the electrical, magnetic and optical properties of materials to develop new devices for a wide variety of cutting-edge applications. A strong foundation in materials physics and chemistry helps engineers/scientists to understand these properties. The course will highlight: 1) structure-property relationships and 2) materials used for various electronic and optoelectronic device applications.

4388 Corrosion and Sustainable Metallurgy

Pre-requisite(s): ME 3322.

Introduction to the eight forms of corrosion. Sustainable engineering concepts, with an emphasis on metallic materials. Alternative metallic designs. Course will culminate in a sustainable materials design project.

4396 Special Topics in Mechanical Engineering

Pre-requisite(s): Consent of Department Chair.

Study of advanced topics in mechanical engineering. This course may be repeated once under a different topic.

4V97 Special Projects in Mechanical Engineering 1 to 6 sem. hrs.

Pre-requisite(s): Consent of department chair.

Advanced topics and/or special project activities in Mechanical Engineering.

Medical Humanities (MH)**1303 Medicine, Meaning, and the Patient/Physician Relationship**

Introduces first-year students to the world of academics and the scholarly community through exploration of the major themes intrinsic in the physician/patient relationship. Emphasizes critical inquiry and thinking, research, writing, and problem solving.

1331 Introduction to Medical Humanities

Introduction to the interdisciplinary and wide-ranging field of medical humanities, its subjects and scope, and the way in which it can expand and enrich the experiences of patients and practitioners

2301 Christian Spirituality and Health Care

An historical framework for Western spiritual traditions, especially the Christian tradition, stressing the relationship between Christian spirituality and healing. (For students interested in Medical Humanities.)

3300 Visual Arts and Healing

Pre-requisite(s): For Medical Humanities Major/Minor Students only.

An overview of the connections between visual art, healing and health care, the role of imagination and creativity in medicine, including the critical viewing of art, class discussions, experiential learning, and a service-learning project. Fee: \$50

4300 History of Medicine (Cross-listed as HIS 4300 and PHI 4300)

Pre-requisite(s): Upper-level standing or consent of instructor.

A review of the origins and development of medicine and medical science from prehistoric times to the present. Consideration will be given to the impact of major diseases on civilization and the emergence of successful measures of control.

4351 Supervised Clinical Medicine

Pre-requisite(s): Departmental approval required.

Supervised weekly clinical service through various medical fields complemented by weekly seminar sessions.

4372 End-of-Life Care & Bereavement

This course critically analyzes how healthcare professionals are involved in the dying experience with patients, families, and communities. Topics include causes of death, trauma, spirituality in grief, complicated bereavement, hospice and palliative care, physician-assisted dying, futile treatment at the end of life, and cross-cultural sensitivities.

4382 U.S. Health Care System

Pre-requisite(s): Upper-level standing or consent of instructor.

Current state of health care in the United States including function, economic impacts, payment systems, ideas for reform, and issues related to patient safety and quality measures

4396 Disability and Society

Critical reflections on questions of humanity, human well-being, understandings of disability, suffering, and care of those with disabilities, with emphasis on cultural, religious, medical and social perspectives.

4V98 Advanced Topics in Medical Humanities

1 to 3 sem. hrs.

Pre-requisite(s): Consent of the instructor and upper level standing.

Study of advanced topics in Medical Humanities. This course may be repeated once with different topic for a total of 6 hours.

Middle East Studies (MES)

2301 Introduction to the Middle East

A regional geographic introduction to the Middle East region. An overview of the physical, cultural, ethnographic, economic and geopolitical components of the region followed by a more in-depth description of selected political states.

3V00 Biblical Heritage and Contemporary Society in the Holy Land (Cross-listed as REL 3V00)

See REL 3V00 for course information.

4378 Religion & Politics in the Middle East

Pre-requisite(s): Upper-level standing.

An examination of the relationship between religion and politics in select countries of the Middle East.

4V01 Readings in Mid-East Studies 1 to 3 sem. hrs.

Pre-requisite(s): Senior standing and approval of Director of Middle East Studies.

A tutorial course individually designed to either allow in-depth study of special topic of student/faculty interest; or allow for a student to have individualized instruction in a broad area of Middle East studies. Details arranged. The course may be repeated once when content differs.

Military Science (MILS)

General Military Course (MILS)

1101 Introduction to Leadership I

Co-requisite(s): MILS 1111.

Overview of the U.S. Army, including its history, organization, customs and courtesies, strategic mission, dynamic structure, and methods of tactical deployment. Includes a field trip that exposes students to on- and off-duty Army life and gives them the opportunity to observe new combat arms lieutenants in action.

1102 Introduction to Leadership II

Co-requisite(s): MILS 1112.

Pre-requisite(s): MILS 1101 or consent of department chair.

Fundamentals of basic tactics, including movement techniques, battle drill/assault techniques, squad tactical control measures, land navigation, and first-aid training. Designed to give the student an initial level of tactical proficiency and a degree of leadership training.

1111 Leadership Lab I

Co-requisite(s): MILS 1101.

Development of leadership skills with practical experience in military skills. Areas of emphasis include drill and ceremonies, squad level tactics, first aid, and land navigation. A weekend field training exercise and weekly physical fitness training are included in the course.

1112 Leadership Lab II

Co-requisite(s): MILS 1102.

Continues the development of leadership skills while giving practical experience in military skills obtained in Leadership Lab I. Areas of emphasis include drill and ceremonies, squad level tactics, first aid, and land navigation. A weekend field training exercise and weekly physical fitness training are included in the course.

2111 Basic Leadership Lab I

Co-requisite(s): MILS 2201.

Development of leadership skills while giving practical experience in military skills, including drill and ceremonies, squad level tactics, first aid, and land navigation. A weekend field training exercise and weekly physical fitness training are included in the course.

2112 Basic Leadership Lab II

Co-requisite(s): MILS 2202.

Development of leadership skills, including drill and ceremonies, squad level tactics, first aid, and land navigation. A weekend field training exercise and weekly physical fitness training are included in the course.

2201 Basic Leadership I

Co-requisite(s): MILS 2111.

Pre-requisite(s): MILS 1102 or consent of department chair.

The military element of power, first aid, light infantry tactics, and map reading.

2202 Basic Leadership II

Co-requisite(s): MILS 2112.

Pre-requisite(s): MILS 2201 or consent of department chair.

Principles of positive and assertive military leadership addressed through leadership assessment training and student classroom presentations.

4V04 Company Grade Office Leadership Development

1 to 3 sem. hrs.

Pre-requisite(s): MILS 4302.

Comprehensive studies for Military Science Cadets who have completed Advanced Leadership Studies. May be taken more than once for a maximum of three credit hours.

Professional Officer Course (MILS)

3111 Intermediate Leadership Lab I

Co-requisite(s): MILS 3301.

Development of leadership skills, including evaluating drill and ceremonies, squad level tactics, first aid, and land navigation. Advanced Course cadets should expect to conduct the training and lead the cadet battalion under cadre supervision. A weekend field training exercise and weekly physical fitness training are included in the course.

3112 Intermediate Leadership Lab II

Co-requisite(s): MILS 3302.

A continuation of MILS 3111. Leadership skills, including evaluating drill and ceremonies, squad level tactics, first aid, and land navigation. Advanced Course cadets should expect to conduct the training and lead the cadet battalion under cadre supervision. A weekend field training exercise and weekly physical fitness training are included in the course.

3301 Intermediate Leadership I

Co-requisite(s): MILS 3111.

Pre-requisite(s): MILS 2202 or consent of department chair.

Effective counseling, writing, and human relation skills necessary to influence human behavior positively. Development of confidence and leadership experience in addition to land navigation skills and tactical proficiency. Group participation and exposure to leadership reaction situations.

3302 Intermediate Leadership II

Co-requisite(s): MILS 3112.

Pre-requisite(s): MILS 3301 or consent of department chair.

Analysis of the leader's role in directing and coordinating the efforts of individuals and organizations, involving student role modeling and analysis of controversial leadership case situations. Students practice and learn the necessary skills to take charge when responsible, as well as to control and positively influence personnel under stressful situations. Additional professional skills are also taught.

4111 Advanced Leadership Lab I

Co-requisite(s): MILS 4301.

Development of leadership skills conducting the training and leading the cadet battalion under cadre supervision. A weekend field training exercise and weekly physical fitness training are included in the course.

4112 Advanced Leadership Lab II

Co-requisite(s): MILS 4302.

Continuation of MILS 4111. Development of leadership skills by conducting the training and leading the cadet battalion under cadre supervision. A weekend field training exercise and weekly physical fitness training are included in the course.

4301 Advanced Leadership I

Co-requisite(s): MILS 4111.

Pre-requisite(s): MILS 3302 or consent of department chair.

The mission and structure of the Army and its professional and social aspects, focusing on oral and written communication skills, counseling techniques, evaluation, and reporting procedures, as well as introducing the combined arms concept.

4302 Advanced Leadership II

Co-requisite(s): MILS 4112.

Pre-requisite(s): MILS 4301 or consent of department chair.

Examination of the dynamics of modern warfare from the perspective of the combat battalion task force. The integration of maneuver forces, air power, intelligence, logistics, and air mobility by a ground combat commander is studied in both practical exercise and case studies. A variety of other subjects relating to staff procedures and command and control are covered.

4V03 Special Studies in Military Science 1 to 3 sem. hrs.

Pre-requisite(s): MILS 4302 and departmental approval required.

Individualized research in Military Science. The research must use the US Army Battle Analysis Methodology. Student's proposals for special study project must be approved by the supervising faculty member. Offered on demand for one to three semester hours. May be repeated multiple times under different topics for a total of three semester hours.

Modern Languages and Cultures (MLC)**1101 First-Year Global Community**

Pre-requisite(s): For new freshmen only and acceptance into the Global Community Living Learning Center (GC-LLC).

A New Student Experience course for first-year students living in the Global Community Living Learning Center (GC-LLC). Focuses on global issues and regions as well as cross-cultural learning. This course may be repeated once for credit.

1V99 Special Studies in a Foreign Language 1 to 4 sem. hrs.

Pre-requisite(s): Consent of department.

Study of a foreign language at the elementary level. May be repeated for a maximum total of eight semester hours.

2V99 Special Studies in a Foreign Language 1 to 3 sem. hrs.

Pre-requisite(s): Consent of department.

Study of a foreign language at the intermediate level. May be repeated for a maximum total of six semester hours.

3101 Global Community and Cross-Cultural Studies

Pre-requisite(s): Acceptance into the Global Community Living Learning Center (GC-LLC) and satisfactory completion of MLC 1101 or consent of the instructor.

Cross-cultural learning about global issues and world affairs for students living in the Global Community Living Learning Center (GC-LLC). May be repeated up to six times for a total of 7 hours credit.

3300 Perspectives of Literature in Translation

Team-taught by specialists in foreign languages and literatures, this course offers the English speaker unique insights into literature from perspectives within and across cultural boundaries. Thematic emphasis will vary. No credit toward foreign language requirement.

3V99 Special Studies in a Foreign Language 1 to 3 sem. hrs.

Pre-requisite(s): Consent of department.

Study of a foreign language at the advanced level. May be repeated for a maximum total of twelve semester hours.

4376 Asian Literature in Translation (Cross-listed as AST 4376)

See AST 4376 for course information.

Museum Studies (MST)**1300 Introduction to Museums**

Introduction to the historical development of museums, the museum profession, and the field of museum studies.

2303 Museum Educational Programming

Pre-requisite(s): Credit or concurrent enrollment in MST 1300.

The history and development of museum education including both directed/formal education and free-choice/informal learning.

3304 Introduction to Cultural Collections Management

Pre-requisite(s): Credit or concurrent enrollment in MST 1300.

Similarities and differences among, historical development of, and challenges facing cultural collections in museums, libraries, and archives. Fee: \$50

3308 Introduction to Material Culture

The material evidence of American life, including everyday artifacts, and those reflecting social and political history. Fee: \$50

4301 Introduction to Museum Administration

Pre-requisite(s): Credit or concurrent enrollment in MST 1300.

Overview of museum and non-profit administration, with emphasis on governance, oversight, budgetary planning, fundraising, public relations, and ethics.

4305 Preservation Management

Pre-requisite(s): MST 3304.

In-depth study of the physical care of museum collections. Fee: \$50

4307 Historic Buildings and Sites

Pre-requisite(s): Upper-level standing.

Varieties and techniques of historic preservation in America. Fee: \$50

4308 Introduction to Material Culture

Pre-requisite(s): upper-level standing.

The material evidence of American life, including everyday artifacts, and those reflecting social and political history.

4309 Introduction to American Decorative Arts

Pre-requisite(s): Upper-level standing.

Guide to the origins, nature and display, as well as chronological and geographical classification of American decorative arts. Fee: \$50

4313 Introduction to Ethical Issues in Museum Collections Management

Pre-requisite(s): Upper-level standing.

Ethical issues arising from the acquisition, ownership, sale and/or treatment of artifacts and art collections.

4324 Introduction to Archival Collections and Museums

Pre-requisite(s): Upper-level standing.

The history of records and recordkeeping systems, the organizational structure of museums, and the respective roles of collectors and researchers in the archival environment. Fee: \$50

4331 Exhibit Design and Preparation

Pre-requisite(s): Upper-level standing.

Exhibit design as a way to meet the needs, interests and learning styles of museum visitors. Fee: \$50

4395 The Museum as a Learning Resource

Pre-requisite(s): MST 1300 or consent of instructor.

Theory and techniques of educational development, implementation, and evaluation to museum programs emphasizing the use of artifacts and specimens in the classroom or museum. Topics can include developing museum/school partnerships, identifying and utilizing resources, complying with district and state curriculum requirements, and furthering lifelong learning experiences.

4V30 Museum Special Topics Seminar

1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor.

Supervised individual or small group projects to explore in depth an area of the museum profession. May be repeated once when different topics are studied for a maximum of six hours.

4V60 Museum Internship

3 to 6 sem. hrs.

Pre-requisite(s): MST 1300, 2303, 3304, 4301.

Internship in the daily operation of a museum or related organization and completion of a specialized project.

4V70 Independent Studies in Museums

3 to 6 sem. hrs.

Pre-requisite(s): Consent of the instructor.

Directed studies of standards of museum professional practices.

Music Ensemble (MUEN)

Music Ensembles

1100 A Cappella Choir

The Baylor University A Cappella Choir is Baylor's premier choral organization. The seventy-voice choir sings a wide range of musical styles. Fee: \$75

1101 Orchestra

The Baylor University Symphony Orchestra is dedicated to high-quality performance of the orchestra repertoire and to the professional and artistic growth of its members. The Baylor University Concert Orchestra is a string orchestra composed of undergraduate and graduate students from a variety of curricula from across the Baylor University campus.

1102 Marching Band

The Baylor University Golden Wave Marching Band of approximately 260 students from twenty states performs a pregame and halftime show for each of Baylor's home football games. In addition, the band travels to several out-of-town games. Fee: \$300

1103 Symphonic Band

The Symphonic Band is a sixty-member ensemble that performs a wide variety of literature including chamber works, masterworks for band, and contemporary wind literature. The philosophy of the Symphonic Band is to encourage musical growth in all student through careful selection of appropriate repertoire. Membership in the Symphonic Band is open to both music and non-music majors through audition in both fall and spring semesters.

1104 Opera

The Opera class is an ensemble that exists to provide Vocal Students at Baylor University with appropriate performance opportunities in opera and/or musical theatre. The Baylor Opera produces at least two productions per school year. The principal production or "Showcase Opera" is produced once each year and features the Baylor Symphony Orchestra and an Opera Chorus when literature calls for one. At least one additional production is also scheduled each year, along with a smaller production or program of opera scenes. This course is strictly an Ensemble. All class, rehearsal and coaching sessions are used to prepare works for performance. Roles in Baylor Opera's productions are cast by audition.

1105 Chamber Singers

The sixteen-voice Chamber Singers specialize in the performance of music of the Renaissance and Contemporary Periods. The group serves as the primary performance group of Baylor's Armstrong-Browning Library. Fee: \$50

1106 Jazz Ensemble

The Baylor Jazz program is a program dedicated to the study and performance of the uniquely American art form of Jazz. The ensembles are made up of students from many different disciplines from around the campus.

1107 Concert Choir

The ninety-voice Concert Choir performs music from all styles of choral repertoire with emphasis on accompanied works. Fee: \$50

1108 Wind Ensemble

The Baylor Wind Ensemble is comprised of the finest woodwind, brass, and percussion students in the Baylor University School of Music. Membership in the ensemble is open to student of all majors by audition. The Wind Ensemble seeks to expose its students and its audiences to the highest quality of music written for wind instruments from the Renaissance to the present. This repertoire, along with regular visits by leading composers, exposes students to a wide variety of compositional techniques, rehearsal processes and expressive possibilities.

1109 Concert Band

The Concert Band consists of students who come from all facets of university life. Meeting twice a week, this group offers any student the opportunity to continue instrumental performance with a limited rehearsal schedule. No audition is required.

1120 Early Music Ensemble

The Baylor Early Music Ensemble performs music from the Medieval, Renaissance, and Baroque eras. Cultural contexts and historical performance practices are explored in the rich musical repertoires of our past.

1121 Baylor University Men's Choir

The Baylor University Men's Choir (formerly Men's Glee Club) is an auditioned group of male musicians. The group's annual season includes performances for Parent's Weekend, Fall and Spring Concerts, Tour Concerts, the Baylor University Christmas Concerts, and frequent appearances for university guests, alumni, and members of the wider community. Membership in the choir is open by audition to all male students on the Baylor campus and includes representatives from many departments and majors. Regular rehearsals consist of two eighty-minute sessions each week. Fee: \$50

1122 Small Vocal Ensemble

This ensemble will focus primarily on contemporary a cappella and vocal jazz. The group will work to perform on campus as well as in and around the Waco community. Fee: \$50

1124 Women's Choir

The Baylor University Women's Choir is an auditioned ensemble dedicated to the study and performance of music for the female voice. Annual performances include the Parent's Weekend concert, Fall and Spring concerts, Christmas at Baylor, and hosting the Baylor Women's Choir Festival -- an event attended by over 250 high school women's choir singers each year. The choir also sings at a variety of events in the community and undertakes recording projects. Membership is open through audition to female students in any degree program at Baylor. Fee: \$50

1125 Baylor Bronze

The "Baylor Bronze" handbell ensemble rings five octaves of bells and five octaves of chimes.

1126 Baylor Bells

Pre-requisite(s): Consent of instructor.

This performance ensemble provides a foundation for handbell ringing at the beginning and intermediate levels.

1130 Chamber Music (Strings)

All instrumental students participate in faculty-coached, regularly-scheduled, un-conducted ensembles. Participation in these ensembles improves the student's musical perception, technical facility and expressive capabilities. In addition to broadening the students' knowledge of repertoire for small combinations of instruments, they learn how to work together with and without supervision.

1131 Chamber Music (Brass)

See MUEN 1130 for general description of chamber music classes.

1132 Chamber Music (Woodwind)

See MUEN 1130 for general description of chamber music classes.

1133 Chamber Music (Percussion)

See MUEN 1130 for general description of chamber music classes.

1134 Harp Ensemble

See MUEN 1130 for general description of chamber music classes.

1135 Piano Ensemble

Introduction to literature for piano duet and piano duo from a variety of style periods. The study of piano ensemble music will provide students with new ways of listening to and thinking about solo and ensemble music.

1136 Studio Accompanying

First semester: Introduction to collaborative repertoire and techniques. Emphasis is on efficient personal practice methods and ensemble rehearsal techniques in the first half of the semester; special attention is given to score study, sight-reading, and time management, as well as techniques for dealing with orchestral reductions. Collaborative skills of balance, ensemble, and shared musical leadership are addressed through master class and private coaching of repertoire prepared as part of required assignments in vocal and/or instrumental studios. Subsequent semesters: Repertoire prepared as part of assignments in instrumental and vocal studios is coached privately and in master class. Collaborative skills of balance, ensemble, and shared musical leadership are emphasized, along with rehearsal techniques and study methods specific to the preparation of vocal repertoire as distinct from instrumental repertoire. Assignments include applied lessons, rehearsals, and related public performances as appropriate.

1137 Keyboard Skills

Designed to develop basic keyboard proficiency in sight-reading, transposition, open score reading, improvisation, accompanying, and ensemble playing. The specific roles and skills required of the church pianist, the conductor-choral accompanist, and the commercial pianist (studio, musical theater) are covered. Basic introduction to digital keyboards. Fundamentals of conducting and choral rehearsal techniques from the piano.

1138 Jazz Combo

This course is designed to help students to develop rehearsal and performance techniques to perform effectively and successfully in a small jazz ensemble or combo.

1193 Baylor Bella Voce

Pre-requisite(s): Consent of instructor.

Baylor Bella Voce is a highly select women's choral ensemble of forty-two singers. Entrance into this ensemble is by audition only. The course is open primarily to music majors (voice majors, choral music education majors, and church music majors) at the undergraduate level. Students from other disciplines may be allowed into the courses as determined by the conductor of the ensemble (instructor of the course). Baylor Bella Voce performs a wide and interesting variety of choral selections reflecting various style periods and genres from the vast repertoire of treble music currently available. The ensemble presents performances within the university community, the local community, the state, and the nation, and even internationally. Through the study and performance of some of the most challenging treble literature available, students have the opportunity to maximally develop musical, vocal, and ensemble skills. Fee: \$50

Music (MUS)

Music Academic Studies

1002 Academic Division Colloquium

This course is oriented to the development and practical application of the student's critical thinking process through lectures and presentations related to the academic field in music. This course may be repeated as necessary.

1007 Church Music Forum

A course that meets several times each semester to hear guest speakers on a variety of topics related to church music.

1100 Introductory Musicianship

Pre-requisite(s): Concurrent enrollment in MUS 1200 or 1301, or a passing score on the Theory Placement Exam, or divisional consent.

Designed as the aural skills complement to MUS 1200; emphasizes rudimentary skills in sight singing, rhythm reading, and ear training.

Fee: \$50

1101 Musicianship I

Pre-requisite(s): MUS 1100 or a passing score on the aural portion of the Theory Placement Exam; and credit or concurrent enrollment in MUS 1301.

The aural skills complement to MUS 1301, this course emphasizes solfege singing of major and minor melodies at sight, rhythm reading in both simple and compound meters, and melodic, rhythmic, and harmonic dictation. Fee: \$50

1102 Musicianship II

Pre-requisite(s): A minimum grade of C in MUS 1101, and either credit or concurrent enrollment in MUS 1302.

A continuation of MUS 1101 designed as the aural skills complement to MUS 1302. Fee: \$50

1107 Beginning Composition I

A basic approach to twentieth-century composition through analysis and exercises in composition.

1108 Beginning Composition II

Pre-requisite(s): MUS 1107 or consent of instructor.

A basic approach to twentieth-century composition through analysis and exercises in composition.

1200 Introductory Music Theory

The study of rudiments of written theory, including notation, scales, key signatures, music terminology, intervals, rhythm and meter, chord construction, and music reading. Does not count as credit toward a degree with a major in music.

1220 Introduction to Music

A course for the non-music major in which representative masterpieces of music are explored. Non-technical discussions of the music, as well as the times and lives of the composers, are presented to enhance the enjoyment of the listening experience.

1301 Theory I

Pre-requisite(s): MUS 1200, or a passing score on the Music Theory Placement Exam.

The first course in a systematic study of the organization of music of the Common Practice Period. Students acquire a basic understanding of the structure of tonal music through analysis and written exercises in harmony and counterpoint.

1302 Theory II

Pre-requisite(s): Minimum grade of C in MUS 1301.

A continuation of MUS 1301, including non-chord tones, 2:1 counterpoint, seventh chords, and basic formal structure.

2101 Musicianship III

Pre-requisite(s): Minimum grade of C in MUS 1102; and credit or concurrent enrollment in MUS 2301.

A continuation of MUS 1102 designed as the aural skills complement to MUS 2301. Fee: \$50

2102 Musicianship IV

Pre-requisite(s): Minimum grade of C in MUS 2101; and credit or concurrent enrollment in MUS 2302.

A continuation of MUS 2101 designed as the aural skills complement to MUS 2302. Emphasizes singing and dictating melodies, rhythms, and chords commonly encountered in late nineteenth and twentieth-century music. Fee: \$50

2207 Elementary Composition I

Pre-requisite(s): MUS 1102 or consent of instructor.

A basic approach to twentieth-century composing through analysis and exercises in melody, harmony, counterpoint, etc. Composing in small forms.

2208 Elementary Composition II

Pre-requisite(s): MUS 1102 and 1302; and consent of the professor.

Continuation of MUS 2207.

2301 Theory III

Pre-requisite(s): Minimum grade of C in MUS 1302.

A continuation of MUS 1302, emphasizing chromaticism in tonal harmony and introducing standard musical forms.

2302 Theory IV

Pre-requisite(s): Minimum grade of C in MUS 2301.

A survey of late nineteenth and twentieth-century compositional techniques and methods of analysis, including scales, chords, rhythmic techniques, approaches to tonality, set theory, and serialism.

2320 Music and Urban Society

A study of the past and present states of music in several urban centers. This is usually a study tour conducted abroad, including lectures, concerts, and first-hand encounters with the culture.

2370 Formation for Christian Musicians

An introduction to selected aspects of Christian music ministry, including personal spiritual formation, the call to ministry, careers in Christian music, philosophy and history of church music, and practical skills for collegiate music ministry.

3170 Guitar for Music Ministry

Designed to give the church music student functional guitar skills. This skill-based course will assure competency in playing chords for common guitar keys and basic strumming patterns. Students will also be exposed to other aspects of guitar playing such as tablature, chord charts, different types of guitars, and other relevant functions. Students who are experienced guitar players will move at their own pace.

3202 Choral Arranging and Composition

Pre-requisite(s): MUS 2102 and 2302.

Creative work in choral arranging and composition. Analysis of various styles of choral composition.

3203 Arranging for Popular and Jazz Idioms

Pre-requisite(s): MUS 2102 and 2302 or consent of instructor.

A study of standard practices of notation, scoring, and instrumentation with regard to jazz and popular music. Attention will be focused on writing for a rhythm section, scoring for woodwinds and brass, and on relating these to vocal idioms. A lab format will be used in which student will be performed.

3207 Composition

Pre-requisite(s): MUS 2102 and 2302.

A first course in composition for non-composition majors.

3301 Theory V

Pre-requisite(s): MUS 2302 and credit or concurrent enrollment in 2102.

Harmonic and structural analysis of larger forms, including variations, rondo, sonata, and contrapuntal forms.

3306 Orchestration

Pre-requisite(s): MUS 2101 and 2301.

Ranges, notation, and characteristics of orchestral instruments. Exercises in orchestrating for combinations of string and wind instruments, including full orchestra. Styles of orchestration. Orchestral score reading.

3307 Intermediate Composition

Pre-requisite(s): MUS 2208 or 3207 or consent of instructor.

Writing in the larger forms for piano, voice, choir, and small instrumental combinations.

3308 Intermediate Composition

Pre-requisite(s): MUS 2208 or 3207 or consent of instructor.

Writing in the larger forms for piano, voice, choir, and small instrumental combinations.

3310 Beginning Jazz Improvisation

An introduction to the techniques of jazz improvisation. Study of jazz theory and Afro-American artists and styles.

3315 Survey of Music Literature

Pre-requisite(s): MUS 1101 and 1301; expectation that students know how to read music.

This course surveys the general history of music. It requires students to be able to follow a musical score and includes the completion of a research project during the course of the semester.

3321 Music in World Cultures

Addresses music as a significant part of various world cultures through lectures, videos, class listening and discussion, and hands-on experience with various musical systems. Music will be studied in relation to religions, political systems, economics, languages and other arts. When possible, workshops with visiting non-Western ensembles will be arranged.

3322 Popular Musics

Examination of the musical and cultural significance of popular musics, exploring how musical sound can be considered "text," and analyzing how and why popular music is created. No previous music experience required.

3323 History of Jazz

The study of jazz from its West African and American blues roots through ragtime, urban blues, big bands, bebop, cool, 1960s Avant Garde, and present developments.

3324 The History of Music before 1600

Pre-requisite(s): MUS 2101 and 2301.

Survey of European music from Antiquity through the Renaissance, including some related materials from outside the Western tradition.

3325 The History of Music from 1600 to 1800

Pre-requisite(s): MUS 2101 and 2301.

Survey of European and American music from the seventeenth and eighteenth centuries.

3326 The History of Music from 1800 to World War I

Pre-requisite(s): MUS 2101 and 2301.

Survey of European and American music from 1800 to World War I, including some related materials from outside the Western concert tradition.

3327 The History of Music from World War I to the Present

Pre-requisite(s): MUS 2102 and 2302.

Integrated survey of European and American art music since World War I, along with selected topics outside that tradition.

3370 The Musician as Educator in the Church

A survey of music education in the church, with particular emphasis upon the planning, implementation and ministerial facets of teaching, as well as a look at the practical philosophical and psychological aspects within a church setting. (3 hours)

3375 Leadership in Music Ministry

Survey of the principles involved in organizing and implementing a comprehensive music ministry, including budgeting, programming, and multiple staff relationships. An introduction to pastoral skills including visioning, hospital visitation, and conflict management. (3 hours)

3377 Instrumental Music in the Church

A study of the use of instruments in the church, seeking to provide students with both knowledge and skill set in the field of instrumental music arrangement and performance practice specifically in the context of Christian worship.

3378 Technology and Keyboards in the Church

A survey of the use of technology, keyboard instruments, and handbells in the church; including the purchase, maintenance, and use of the instruments/equipment.

4110 Advanced Jazz Improvisation

Pre-requisite(s): MUS 3310 or consent of instructor.

This course is an in-depth study of modern jazz improvisational techniques. May be repeated for credit.

4203 Electronic Studio

Pre-requisite(s): Junior standing or consent of instructor.

Fundamentals of tape recording, musique concrete techniques, and the synthesizer. Includes practical studio work and creative projects. One to two hours lecture/demonstration per week; two to three hours of individual work in the studio per week.

4204 Advanced Orchestration

Pre-requisite(s): MUS 3306.

Study of problems in orchestration beyond the general topics addressed in MUS 3306.

4205 Theoretical Systems

Pre-requisite(s): MUS 3301.

Systems currently employed in music-theoretic scholarship for analysis of various musical styles. Application and comparison of the systems.

4208 Jazz Theory

Pre-requisite(s): MUS 1101 and 1301; and consent of instructor.

This course is an in-depth study of the harmonic and melodic basis of jazz, including the use of modes and extensions in jazz improvisation and composition, and reharmonization and analysis of performers' improvised solos. Students will develop skills in ear training and practical jazz music.

4236 Performer Wellness

Pre-requisite(s): Upper-level standing.

This course is designed to address music wellness issues and help musicians adopt a healthy approach to performance that will allow them to perform at their best. Regular performance practice will be integrated with relaxation techniques such as stretching, deep breathing, imagery, and progressive relaxation. Practice and memorization techniques to assist with performance preparation will also be covered.

4270 Music Ministry Internship

A four-week internship (one hundred sixty hours) in a church under the direct supervision of the minister of music. Periodic observations by the faculty.

4274 Congregational Song

The study of congregational music used in corporate worship. The course includes the historical development of congregational song and the analysis of its literary, scriptural, musical, and theological content.

4280 Senior Seminar and Paper

Pre-requisite(s): MUS 3301.

Introduction to bibliography, research methods, and scholarly writing, providing the opportunity for specialized work in the student's major area in music history and literature or theory degrees.

4301 Advanced Analysis

Pre-requisite(s): MUS 3301.

Investigation of specialized topics in music analysis, with focus on a particular analytical approach or repertoire.

4304 Counterpoint

Pre-requisite(s): MUS 2102 and 2302.

Principles of modal and harmonic counterpoint.

4305 Advanced Counterpoint

Pre-requisite(s): MUS 4304.

A continuation of MUS 4304. Advanced work in specialized areas of counterpoint.

4307 Advanced Composition I

Pre-requisite(s): MUS 3304.

Continuation of MUS 3308.

4308 Advanced Composition II

Continuation of MUS 4307. Includes a recital of original works.

4320 Seminar in American Music

This seminar focuses on interpreting and understanding primary sources, both written and musical (scores), related to the various styles and approaches to the creation of American music.

4325 Opera Literature

This course examines opera from its origins in the late sixteenth century to the present. Students will learn about opera's musical and literary conventions, its development, and how operas reflect the musical and cultural values of their areas. The scores to be studied are coordinated with recorded and audio/visual examples, as well as with relevant readings from books and periodicals. Class discussion, presentations, essays, listening tests, and a final project are part of the course.

4326 American Folk Music

Folk and tribal music in the United States. Specific topics include: music of native Americans, oral tradition music of European immigrants, oral tradition music created in America, African and African-American music, the Latin American musical influence, and ethnomusicology as a discipline of study. Current and historical topics will be included. Students will participate in field research projects.

4342 American Musical Theater

Important historical, cultural, musical and production moments in the century-long narrative of the American musical theatre. Specific topics may vary from year to year. The course is designed for upper-level music majors; theatre majors and other students should consult with instructors before enrolling.

4345 History of Classical Music in the United States

Pre-requisite(s): Upper-level standing or consent of instructor.

This course introduces both music majors and non-music majors to the often-overlooked contributions of creative Americans to the field of "classical" music from the beginning of the United States' existence to the present time.

4360 Ethnographic and Analytical Methods in Ethnomusicology (Cross-listed as ANT 4361)

Pre-requisite(s): Junior standing or above.

Introduction to analytical methods, ethnography, and fieldwork techniques in ethnomusicology in order to equip students with practical tools to conduct ethnographical research and fieldwork.

4361 Traditional Music and Culture in Africa

Pre-requisite(s): Junior standing and above.

Analysis of specific African musical traditions within their cultural, geographical, historical, and social contexts as points of departure for analyzing and understanding broader patterns and dynamics of human activity.

4362 Traditional Music and Culture in Asia (Cross-listed with AST 4362)

Pre-requisite(s): Junior standing and above.

Analysis of specific Asian musical traditions within their cultural, geographical, historical, and social contexts as points of departure for analyzing and understanding broader patterns and dynamics of human activity.

4363 Traditional Music and Culture in Europe (Cross-listed as SEES 4363)

Pre-requisite(s): Junior standing and above.

Analysis of specific European musical traditions within their cultural, geographical, historical, and social contexts as points of departure for analyzing and understanding broader patterns and dynamics of human activity.

4364 Traditional Music and Culture in Latin America (Cross-listed as LAS 4364)

Pre-requisite(s): Junior standing or above.

Analysis of specific Latin American musical traditions within their cultural, geographical, historical, and social contexts as points of departure for analyzing and understanding broader patterns and dynamics of human activity.

4365 Music and Identity in Texas Culture

Analysis of specific Texas musical traditions within their cultural, historical, and social contexts as points of departure for analyzing broader patterns and dynamics of human activity reinforcing identity.

4366 Performance Practices in World Music

Pre-requisite(s): Junior level standing and consent of instructor.

Academic approach to a variety of performance practice techniques used in traditional and urban musical genres around the world.

4373 Worship in the Church

A study of the music in worship from biblical times to the present. Includes strengthening worship leadership and planning skills and thereby connecting the principles and practice of music making in worship to the broader life of the Church in a local context.

4374 The Song of the Church (cross-listed as THEO 7397)

A survey of vocal music in the Christian church, with particular emphasis upon the literary, scriptural, theological, musical, historical, and performance background of congregational song, and an introduction to selected standard sacred choral literature.

43C1 Aesthetic Perception (Cross-listed as ART 43C1 and ENG 43C1)

See ENG 43C1 for course information.

4V09 Advanced Electronic Studio**1 to 3 sem. hrs.**

Pre-requisite(s): MUS 4203 and consent of instructor.

A continuation of MUS 4203. Material covered includes fixed and interactive electroacoustic music; linear and non-linear computer music composition; study of electronic music literature. At least one substantial creative project will be completed. Course may be repeated for credit.

Music Conducting**2260 Elementary Conducting (Music Education Elementary)**

Pre-requisite(s): MUS 1102 and 1302.

Fundamentals of conducting techniques and related score study in rehearsal and performance.

3260 Instrumental Conducting

Pre-requisite(s): MUS 2260.

Application of basic conducting skills to the direction of instrumental ensembles.

3261 Choral Conducting

Pre-requisite(s): MUS 2260.

Application of basic conducting skills to the direction of choral ensembles.

4260 Orchestral Conducting

Pre-requisite(s): MUS 3260.

Advanced study of instrumental conducting techniques and related preparation and score study, specifically applied to orchestral ensembles.

4261 Advance Choral Conducting

Pre-requisite(s): MUS 3261.

Advanced study of choral conducting techniques and related preparation and score study, specifically applied to choral ensembles.

4262 Band Conducting

Pre-requisite(s): MUS 3260.

Advanced study of instrumental conducting techniques and related preparation and score study, specifically applied to bands and wind ensembles.

4321 Symphonic Literature

A survey of orchestral literature.

4331 Band Literature

Literature for wind ensemble and band from early sources to the present.

4337 Choral Literature

Pre-requisite(s): MUS 3261.

Secular and religious choral music representing style periods from the late Renaissance to the present.

4V12 Workshop in Choral Music**1 to 2 sem. hrs.**

Designed especially for music teachers and others who are involved in choral music direction or instruction, and open to music education majors.

Music Education**1003 Field Experience in Music Education**

Required field-experience, both observational and interactive, prior to the student teaching semester.

1202 Basic Guitar

Group instruction in beginning guitar. A comprehensive approach which includes accompanying, solo playing, and ensembles, history of the guitar, and fundamentals of music. Open to non-music majors only.

1216 Band Techniques for String Majors

This class is designed to provide string majors with knowledge, skills, and competencies in teaching wind/percussion instruments individually and in an ensemble setting.

1321 Engaging with Music

Development of skills and insights necessary to appreciate and understand music and the vital role that that music plays in a variety of historical and cultural contexts. Fosters creative approaches to active listening. No previous music experience required.

1330 Introduction to Music Education

An introductory study of learning theory and human development, an overview of the total school music program, and a survey of the history and philosophy of American music education.

1331 Technology for Music Educators

This course provides practical technology knowledge and skills specifically for music education majors; the content of the course changes as technology evolves. Core components include music notation software, hardware and software for live performance and recording, concert broadcasting and documentation, branding and online presence, and digital pedagogical tools.

Fee: \$50

2202 Intermediate Guitar

Pre-requisite(s): MUS 1202.

This course is designed for non-music majors who have successfully completed Basic Guitar 1202 and have a working knowledge of open position chords and scales, basic rhythm accompaniment and melody playing techniques, as well as reading skills up to and including eighth-note based rhythms in the first position. Emphasis is placed on expanding technical range and repertoire on the guitar through the understanding and assimilation of movable chord forms and scale fingerings. Fee: \$50

3132 Choral Methods I

Instructional strategies for teaching foundational musical content to secondary-level singers in group settings. Emphasis will be placed on implementation of the teaching cycle, as it applies to pre-repertoire instruction in the choral classroom. Fee: \$50

3135 Special Learners in the Music Classroom

Instructional strategies for teaching students with special needs in the music classroom. Emphasis will be placed on engaging students in both traditional classroom environments and ensemble music settings.

3136 Instrumental Methods I

Instructional strategies for warm-up and literature selection as applied to secondary instrumental ensembles.

3212 String Methods (For String Majors)

A survey of the most widely-used pedagogical methods for heterogeneous group string instruction. Emphasis will be placed on observation, practice teaching, and program building.

3232 Choral Methods II

Pre-requisite(s): Credit or concurrent enrollment in MUS 3132.

Instructional strategies for facilitating choral rehearsals and performances for a variety of choral ensembles, focusing on the development of sight-reading skills and repertoire learning. Addresses a wide range of issues involved in administering a school choral music program.

3331 Music in the Elementary School

Methods and materials for teaching music to children. For music education majors and elementary education majors with a teaching field in music.

3334 Secondary Choral Music

Pre-requisite(s): MUS 3232.

This course provides advanced training in secondary choral music teaching practices and includes substantial field experience in secondary choral music programs. Topics of study include music reading strategies, rehearsal technique, curriculum design and administrative issues related specifically to choral music programs.

3335 Instrumental Music in the Secondary School

Organization, administration, and promotion of band and orchestra programs. Care and selection of instruments, uniforms, music, and related materials. Units on testing and grading, rehearsal procedures, programming, and financing.

3336 Music for Elementary Classroom Teachers

Required of all elementary education majors. A study of the musical experiences and activities through which children acquire basic musical concepts and skills.

3337 Elementary Music Education

Pre-requisite(s): MUS 3331.

Extends the work of MUS 3331 to provide a detailed study of music instruction in the elementary school. Includes observation and field teaching.

4135 Practicum in Instrumental Music Education

This is an experiential course aimed at providing upper level instrumental music education students with real world teaching opportunities in a monitored environment.

4219 Marching Band/Jazz Pedagogy

Philosophy, materials, and techniques of high school marching bands and jazz ensembles.

4230 Induction to Music Teaching

Co-requisite(s): MUS 4F30.

This course, designed to be taken concurrently with all-level student teaching in music, examines practical issues involved in successful music teaching, such as organization, administration, classroom management, and school governance. Additionally, current controversial issues in education are considered in the context of direct field experiences in music. Students must earn at least a grade of C in this course.

4350 International Music Education

An exploration of music education practices in international school settings, including curricular comparisons, student populations, and program configurations. Attention will be given to any specialized procedures required for those interested in teaching in international environments post-graduation. This course may be repeated once.

4F30 All-Level Student Teaching in Music

Co-requisite(s): MUS 4230.

Pre-requisite(s): 2.75 minimum GPA; MUS 1003; all degree requirements completed except for MUS 4230.

Practice in all student teacher proficiencies at the elementary, middle school, and secondary levels, including classroom organization and management, assessment, planning/delivery of instruction, adapting instruction for individual needs, collaboration, technology, and professionalism. A one-semester practicum for music education students. The course provides fifteen weeks of full-day supervised practice in all student teacher proficiencies at the elementary, middle school, and secondary levels, including classroom organization and management, assessment, planning/delivery of instruction, adapting instruction for individual needs, collaboration, technology, and professionalism.

4F31 All-Level Student Teaching in Music (out-of-town)

Pre-requisite(s): 2.75 minimum GPA; MUS 1003; all degree requirements completed except for MUS 4230.

Co-requisite(s): MUS 4230.

Practice in all student teacher proficiencies at the elementary, middle school, and secondary levels, including classroom organization and management, assessment, planning/delivery of instruction, adapting instruction for individual needs, collaboration, technology, and professionalism. A one-semester practicum for music education students. The course provides fifteen weeks of full-day supervised practice in all student

4V10 Workshop in Elementary School Music 1 to 3 sem. hrs.

Designed especially for music teachers and elementary classroom teachers, and open to music education majors.

Music (General)**1001 Recital Attendance**

This course provides a means to record attendance requirement credit by semester.

1095 Freshman Music Seminar

This course prepares entering college freshmen admitted to the School of Music for success in pursuing a degree in music. Designed for first semester students, the course covers degree expectations, study skills, long term planning and vocational preparation, and begins content instruction in the discipline. This course is available to music majors only.

40R1 Special Recital

Pre-requisite(s): Consent of instructor.

Presentation of a recital over and above degree requirements. Fee: \$50

4181 Special Topics

An in-depth study of a narrowly circumscribed topic, such as a composer or genre. This course provides the opportunity to utilize special skills and knowledge of outstanding resident or visiting faculty. May be repeated six times with different topics of study.

4259 Fundamentals of Conducting

Introduction to advanced conducting techniques. Focus will be on strengthening skills from undergraduate conducting courses and building strategies for score preparation, knowledge, and facility.

4381 Special Topics

An in-depth study of a narrowly circumscribed topic, such as a composer or genre. This course provides the opportunity to utilize special skills and knowledge of outstanding resident or visiting faculty. May be repeated for credit.

4V80 Independent Studies**1 to 3 sem. hrs.**

Pre-requisite(s): Consent of instructor.

Independent research undertaken by the student under the supervision of one faculty member. This course is limited to superior students working in their major area. It cannot duplicate the content of another course or substitute for degree requirements.

4121 Performing Recitative

Development of process-based skill sets for learning to sing and perform recitative, primarily in operas by Handel, Mozart, and bel canto composers. Topics include comparing recitativo secco and recitativo accompagnato and the practical performance techniques involved, applying concepts of lyric diction to the learning process, and mastering finer points such as style, pacing, appoggiature, word play, optional rests, and character development.

4237 Creative Entrepreneurship in Music

Pre-requisite(s): Music majors only.

Development of fundamental skills music-based entrepreneurship, and creative thinking beyond the practice room as preparation for 21st-century careers in music.

Music Instrumental Studies**1111 Flute-Saxophone**

Designed to provide a thorough understanding of the problems involved and the skills required for teaching each instrument. Fee: \$50

1112 Oboe-Bassoon

Designed to provide a thorough understanding of the problems involved and the skills required for teaching each instrument. Fee: \$50

1113 Clarinet

Designed to provide a thorough understanding of the problems involved and the skills required for teaching each instrument. Fee: \$50

1114 Trumpet-Horn

Designed to provide a thorough understanding of the problems involved and the skills required for teaching each instrument. Fee: \$50

1115 Trombone-Baritone-Tuba

Designed to provide a thorough understanding of the problems involved and the skills required for teaching each instrument. Fee: \$50

1116 Strings (for nonstring players)

Designed to provide a thorough understanding of the problems involved and the skills required for teaching each instrument. Fee: \$50

1117 Violin (for string majors)

Designed to provide a thorough understanding of the skills and materials necessary for teaching and playing the violin. Fee: \$50

1118 Viola (for string majors)

Designed to provide a thorough understanding of the skills and materials necessary for teaching and playing the viola. Fee: \$50

1119 Percussion

Designed to provide a thorough understanding of the problems involved and the skills required for teaching each instrument. Fee: \$50

1120 Cello (for string majors)

Designed to provide a thorough understanding of the skills and materials necessary for teaching and playing the cello. Fee: \$50

1121 Double-Bass (for string majors)

Designed to provide a thorough understanding of the skills and materials necessary for teaching and playing the double-bass. Fee: \$50

1161 Violin Orchestral Excerpts I

Pre-requisite(s): Consent of instructor.

Focused preparation of group I of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1162 Violin Orchestral Excerpts II

Pre-requisite(s): Consent of instructor.

Focused preparation of group II of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experiences and skills to master the audition process. May be repeated once for credit.

1163 Violin Orchestral Excerpts III

Pre-requisite(s): Consent of instructor.

Focused preparation of group III of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1164 Violin Orchestral Excerpts IV

Pre-requisite(s): Consent of instructor.

Focused preparation of group IV of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1171 Viola Orchestral Excerpts I

Pre-requisite(s): Consent of instructor.

Focused preparation of group I of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1172 Viola Orchestral Excerpts II

Pre-requisite(s): Consent of instructor.

Focused preparation of group II of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1173 Viola Orchestral Excerpts III

Pre-requisite(s): Consent of instructor.

Focused preparation of group III of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1174 Viola Orchestral Excerpts IV

Pre-requisite(s): Consent of instructor.

Focused preparation of group IV of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1181 Cello Orchestral Excerpts I

Pre-requisite(s): Consent of instructor.

Focused preparation of group I of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1182 Cello Orchestral Excerpts II

Pre-requisite(s): Consent of instructor.

Focused preparation of group II of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1183 Cello Orchestral Excerpts III

Pre-requisite(s): Consent of instructor.

Focused preparation of group III of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1184 Cello Orchestral Excerpts IV

Pre-requisite(s): Consent of instructor.

Focused preparation of group IV of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1191 Double Bass Orchestral Excerpts I

Pre-requisite(s): Consent of instructor.

Focused preparation of group I of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1192 Double Bass Orchestral Excerpts II

Pre-requisite(s): Consent of instructor.

Focused preparation of group II of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1193 Double Bass Orchestral Excerpts III

Pre-requisite(s): Consent of instructor.

Focused preparation of group III of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1194 Double Bass Orchestral Excerpts IV

Pre-requisite(s): Consent of instructor.

Focused preparation of group IV of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1195 Harp Orchestral Excerpts I

Pre-requisite(s): Consent of the instructor.

Focused preparation of group I of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1196 Harp Orchestral Excerpts II

Pre-requisite(s): Consent of the instructor.

Focused preparation of group II of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1197 Harp Orchestral Excerpts III

Pre-requisite(s): Consent of the instructor.

Focused preparation of group III of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

1198 Harp Orchestral Excerpts IV

Pre-requisite(s): Consent of the instructor.

Focused preparation of group IV of the standard orchestral audition excerpts. Special emphasis given to learning technical and pedagogical concepts as well as developing experience and skills to master the audition process. May be repeated once for credit.

11B6 Applied Lessons in Natural (Baroque) Trumpet

Pre-requisite(s): MUS 12B1.

Introduces the student to the traditions, fundamental techniques and performance practices of the instrument. The opportunity to perform standard repertoire from Baroque literature, in solo and ensemble settings, will be provided.

3236 Instrumental Methods II

Instructional strategies for facilitating instrumental ensemble rehearsals and performances in a variety of settings. Addresses a wide range of issues in administering school instrumental music programs.

40B1 Degree Recital - Trumpet

Pre-requisite(s): Credit or concurrent enrollment in MUS 32B1 or 34B1.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40B2 Degree Recital - Horn

Pre-requisite(s): Credit or concurrent enrollment in MUS 32B2 or 34B2.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40B3 Degree Recital - Trombone

Pre-requisite(s): Credit or concurrent enrollment in MUS 32B3 or 34B3.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40B4 Degree Recital - Baritone

Pre-requisite(s): Credit or concurrent enrollment in MUS 32B4 or 34B4.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40B5 Degree Recital - Tuba

Pre-requisite(s): Credit or concurrent enrollment in MUS 32B5 or 34B5.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40C1 Degree Recital - Composition

Co-requisite(s): MUS 4308.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40H1 Degree Recital - Harp

Pre-requisite(s): Credit or concurrent enrollment in MUS 32H1 or 34H1.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40P1 Degree Recital - Percussion

Pre-requisite(s): Credit or concurrent enrollment in MUS 32P1 or 34P1.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40S1 Degree Recital - Violin

Pre-requisite(s): Credit or concurrent enrollment in MUS 32S1 or 34S1.

Fee: \$50

40S2 Degree Recital - Viola

Pre-requisite(s): Credit or concurrent enrollment in MUS 32S2 or 34S2.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40S3 Degree Recital - Cello

Pre-requisite(s): Credit or concurrent enrollment in MUS 32S3 or 34S3.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40S4 Degree Recital - Bass

Pre-requisite(s): Credit or concurrent enrollment in MUS 32S4 or 34S4.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40W1 Degree Recital - Flute

Pre-requisite(s): Credit or concurrent enrollment in MUS 32W1 or 34W1.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40W2 Degree Recital - Oboe

Pre-requisite(s): Credit or concurrent enrollment in MUS 32W2 or 34W2.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40W3 Degree Recital - Clarinet

Pre-requisite(s): Credit or concurrent enrollment in MUS 32W3 or 34W3.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40W4 Degree Recital - Bassoon

Pre-requisite(s): Credit or concurrent enrollment in MUS 32W4 or 34W4.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40W5 Degree Recital - Saxophone

Pre-requisite(s): Credit or concurrent enrollment in MUS 32W5 or 34W5.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

4333 Percussion Literature and Pedagogy

Solo and chamber music and pedagogy for percussion instruments.

4334 String Chamber Literature

Chamber music for string instruments.

4335 Woodwind Literature and Pedagogy

Solo and chamber music literature and pedagogy for woodwind instruments.

4336 Brass Literature and Pedagogy

Solo and chamber music and pedagogy for brass instruments.

4V11 Workshop in Instrumental Music

1 to 2 sem. hrs.

Designed especially for music teachers and others who are involved in instrumental music direction or instruction, and open to music education majors.

Music Keyboard Studies

1125 Beginning Class Piano

Group instruction in piano for non-music majors with no previous training in piano. Fee: \$50

1131 Class Piano, Grade Level I (For Music Majors)

Group instruction for piano grade level I. Fee: \$50

1132 Class Piano, Grade Level II (For Music Majors)

Group instruction for piano grade level II. Fee: \$50

1133 Class Piano, Grade Level III (For Music Majors)

Group instruction for piano grade level III. Fee: \$50

11K3 Undergraduate Harpsichord

Pre-requisite(s): Music major or approval of instructor.

11K5 Undergraduate Piano for Non-Music Majors

Individual instruction in piano for non-music majors with some prior musical training.

12K2 Undergraduate Organ

Pre-requisite(s): By permission of instructor.

2113 Introductory Service Playing

Pre-requisite(s): Organ majors (MUS APM Organ) or MUS 11K2 or MUS 51K2.

A course designed to teach the role of music in the worship service and the fundamentals of church service playing on the organ, including creative hymn playing, congregational singing, and choral accompaniments.

3138 Sight-Reading for Pianists

Pre-requisite(s): MUS 1137 or consent of instructor.

This course focuses on the development of sight-reading skills for pianists. In-class activities and regular practice assignments will help the student identify and improve sight-reading weaknesses. Intended for piano majors and piano concentrations.

3312 Piano Pedagogy I

Piano Level IV Fundamentals of piano teaching, and examination of the learning process and its application to the elementary student. Review of teaching materials and music technology for the elementary student. Observation and directed teaching in the Piano Laboratory Program, both individual and group lesson settings.

3313 Piano Pedagogy II

Pre-requisite(s): MUS 3312.

Examination and evaluation of beginning piano methods. Survey, analysis, and classification of pre-college teaching literature. Independent studio management and planning. Observation and directed teaching in the Piano Laboratory Program, both individual and group lesson settings.

40K1 Degree Recital - Piano

Pre-requisite(s): Credit or concurrent enrollment in MUS 31K1, 32K1, 33K1, or 34K1.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

40K2 Degree Recital - Organ

Pre-requisite(s): Credit or concurrent enrollment in MUS 31K2, 32K2, 33K2, or 34K2.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

4114 Internship in Piano Teaching I

Pre-requisite(s): Piano Level VIII.

Special assignments in piano teaching; children's classes and lessons in the Preparatory Laboratory program; group and individual instruction of college students; adult leisure piano. Faculty direction and evaluation of teaching. May be repeated for credit.

4115 Internship in Piano Teaching II

Pre-requisite(s): Piano Level VIII.

Special assignments in piano teaching; children's classes and lessons in the Preparatory Laboratory program; group and individual instruction of college students; adult leisure piano. Faculty direction and evaluation of teaching. May be repeated for credit.

4210 Organ Methods

For prospective organ teachers: methods and materials; church and concert repertoire.

4213 Service Playing

Pre-requisite(s): Organ major or consent of instructor.

Study of techniques and resources for organ playing in the context of a worship service.

4315 Advanced Piano Pedagogy and Practicum I

Comprehensive study and practical experiences of the group teaching process at the collegiate level. Lesson planning, group dynamics, materials, the electronic laboratory, and the different types of instruction are included.

4316 Advanced Piano Pedagogy and Practicum II

Pre-requisite(s): MUS 4315.

Continuation of MUS 4315.

4317 Piano Pedagogy III

Pre-requisite(s): MUS 3312.

Examination and evaluation of standard literature, teaching materials and music technology for the intermediate student. Exploring issues related to the piano teaching profession. Directed teaching in the Piano Laboratory Program, both individual and group lesson settings.

4322 Piano Literature I

Pre-requisite(s): For music majors only or consent of instructor.

Literature of keyboard instruments from early sources to the early nineteenth century.

4324 Piano Literature II

Pre-requisite(s): Enrollment limited to music majors or consent of instructor.

Literature of keyboard instruments from the mid-nineteenth century to the present.

4343 Organ Literature I

The organ and its literature from the earliest manuscripts and tablatures through 1750.

4344 Organ Literature II

The organ and its literature from 1750 to the present.

4V13 Workshop in Keyboard Music

1 to 9 sem. hrs.

An intensive workshop on keyboard methods and materials.

Music Vocal Studies**1124 Class Voice**

Pre-requisite(s): Course requires ability to match pitch and accurately sing back simple melodies. Departmental consent required.

Group instruction in voice. Fee: \$50

1150 English and Italian Diction

Special laboratory course for voice students dealing with pronunciation and enunciation as applied to singing English and Italian.

1151 German Diction

Pre-requisite(s): A grade of C or above in MUS 1150.

Special laboratory course for voice students dealing with pronunciation and enunciation as applied to singing German.

1152 French Diction

Pre-requisite(s): A grade of "C" or above in MUS 1150.

Special laboratory course for voice students dealing with pronunciation and enunciation as applied to singing French.

3153 Russian Lyric Diction

Pre-requisite(s): A grade of C or above in MUS 1150, 1151, and 1152.

Special laboratory course for voice students dealing with pronunciation and enunciation as applied to singing Russian.

40V1 Degree Recital - Voice

Pre-requisite(s): Credit or concurrent enrollment in MUS 32V1 or 34V1.

Presentation of a recital in fulfillment of degree requirements. Fee: \$50

4120 Advanced Opera Workshop

Pre-requisite(s): Consent of instructor.

Advanced Opera Workshop is an intensive class for advanced singers who aspire to careers in Opera and/or Musical Theatre. In this class students receive intensive one-on-one instruction on their "audition aria package." An accompanist is assigned for the course and students coach each aria or piece of musical theatre to polish it for professional auditions. Students will also have the opportunity to obtain one-on-one help with their professional credentials, taxes as artists and other items as needed. Since one-on-one instruction is the key to the success of this class the number of students enrolled must be limited. Therefore, undergraduates who wish to take this class must receive a nomination from their Vocal Instructor prior to asking for permission from the instructor of the course. Repeatable for credit.

4151 Vocal Coaching

Pre-requisite(s): Consent of instructor.

Advanced individual study of solo vocal repertoire for upper-level students preparing recitals, competitions, auditions, etc. May be repeated for a maximum of six semester hours.

4216 Opera Project I

Pre-requisite(s): Audition and/or consent of instructor.

Training class for singers and choral conducting students in stage techniques.

4218 Opera Project II

Pre-requisite(s): Audition and/or consent of instructor.

Training class for singers and choral-conducting students in stage techniques.

4220 Acting for Singers I

Pre-requisite(s): Consent of instructor.

Acting for Singers I is a beginning acting course for the stage specifically designed to provide appropriate training in acting for young singers who aspire to stage careers in Opera and/or Musical Theatre. The course includes instruction in basic stage deportment for recitals and auditions and is also appropriate for students who plan to teach young vocalists in the future, particularly those called upon to teach Opera Workshop or direct an Opera Scenes Program at the University level and/or direct a Musical Production at the high-school level.

4221 Acting for Singers II

Pre-requisite(s): MUS 4220.

Acting for Singers II is the second of two courses designed to provide appropriate training in acting for young singers who aspire to stage careers in Opera and/or Musical Theatre. This course will focus on the individual student rather than the larger group. Students will deal with problems specific to opera and musical theatre including acting within the time-frame of the composer, necessity of singing out to the audience at all times and connection with the conductor during performances. This course is appropriate for aspiring young artists as well as prospective teachers in the fields of vocal and choral music. Prior to taking this course a student should have taken Acting for Singers I or an equivalent.

4299 Vocal Pedagogy

A study of the singing voice including anatomy and physiology of the larynx and the breathing mechanism, phonation, basic acoustics, vocal registers, vocal pathologies, and hygiene, among other related subjects.

4319 Operatic Role Preparation

Pre-requisite(s): MUS 0104 or 5004; upper-level standing.

Role Preparation will cover the research into the genesis of a specific opera as well as the music of a role from that opera. Students will have the opportunity to learn operatic roles that they, and their applied voice teacher, feel are appropriate for their voices and abilities. Students will then receive musical and dramatic coaching on their roles and will present semi-staged or concert versions of their roles at the end of the semester. May be repeated once for credit.

4327 Song Literature I

Music for solo voice from its beginnings to the present.

4329 Song Literature II

Continuation of MUS 4327.

Neuroscience (NSC)

1101 New Student Seminar in Psychology and Neuroscience (Cross-listed as PSY 1101).

See PSY 1101 for course information.

1106 Introduction to Neuroscience Laboratory

Pre-requisite(s): NSC 1306 or concurrent enrollment.

Laboratory experiments illustrating procedures in neuroanatomy, behavioral neuroscience, animal learning and behavior, and human sensation and perception. Fee: \$100

1306 Introduction to Neuroscience

An introduction to the biological bases of human and animal behavior. Emphasis is placed upon neuroanatomical, neurophysiological, and behavioral methodologies which contribute to an understanding of brain-behavior relationships.

3111 Laboratory in Cognition (Cross-listed as PSY 3111)

Pre-requisite(s): NSC 3311 or concurrent enrollment.

Laboratory experiments illustrating methods and procedures in cognitive psychology. Fee: \$100

3119 Laboratory in Clinical Neuroscience (Cross-listed as PSY 3119)

Pre-requisite(s): NSC 3319 or PSY 3319 or concurrent enrollment.

Laboratory experiments illustrating methods and procedures in clinical neuroscience. Fee: \$100

3120 Laboratory in Learning and Behavior (Cross-listed as PSY 3120)

Pre-requisite(s): NSC 3320 or PSY 3320 or concurrent enrollment.

Laboratory experiments illustrating methods and procedures in learning and behavior. Fee: \$150

3123 Laboratory in Sensation and Perception (Cross-listed as PSY 3123)

Pre-requisite(s): NSC 3323 or PSY 3323 or concurrent enrollment.

Laboratory experiments illustrating methods and procedures in sensation and perception. Fee: \$100

3311 Cognition (Cross-listed as PSY 3311)

Pre-requisite(s): NSC 1106-1306, and either PSY 2402 or MTH 1321; or consent of instructor.

Introduction to the structures and processes involved in human cognition, including thinking, problem solving, language, attention, and memory.

3319 Clinical Neuroscience (Cross-listed as PSY 3319)

Pre-requisite(s): NSC 1106-1306, and either PSY 2405 or MTH 1321 or consent of instructor.

A survey of current neuroscientific contributions to the understanding of the etiology of various mental disorders. The course covers basic principles of neural science followed by an examination of motivation and emotions within a neuroscience framework.

3320 Learning and Behavior (Cross-listed as PSY 3320)

Pre-requisite(s): NSC 1106-1306, and either PSY 2402 or MTH 1321 or consent of instructor.

An examination of human and animal learning and behavior within a nature-nurture framework.

3323 Sensation and Perception (Cross-listed as PSY 3323)

Pre-requisite(s): NSC 1106-1306, and either PSY 2402 or MTH 1321 or consent of instructor.

An introduction to the anatomical, physiological, motivational, and cognitive factors which determine conscious sensory and perceptual experience.

3356 Neuropharmacology

Pre-requisite(s): NSC 1306 or consent of instructor.

The pharmacology of major drugs that work primarily on the nervous system, with an emphasis on pharmacodynamics (receptor subtypes, locations, and functions).

3370 Affective Neuroscience (Cross-listed as PSY 3370)

Pre-requisite(s): NSC 1306 and 1106.

Explores the underlying neural circuits important for normal and abnormal emotional behavior and experience. Focus on neuroimaging studies of human disorders for which there is a critical mass of data regarding the neural underpinnings of psychopathology.

3375 Sleep (cross-listed as PSY 3375)

See PSY 3375 for course information.

4130 Laboratory in Behavioral Neuroscience (Cross-listed as PSY 4130)

Pre-requisite(s): NSC/PSY 4330 or concurrent enrollment.

Laboratory experiments illustrating methods and procedures in Behavioral Neuroscience. Fee: \$100

4312 Behavioral Medicine (Cross-listed as PSY 4312)

Pre-requisite(s): NSC 1106 and 1306 or consent of instructor.

Topics include the role of mind, brain, and behavior in health, disease and wellness; the history, philosophy, and current status of health care systems; physiological and behavioral analyses of stress; psychoneuroimmunology; behavioral factors in cardiovascular disease, cancer, drug abuse, and weight management.

4317 Literature of Behavioral Neuroscience (Cross-listed as PSY 4317)

Pre-requisite(s): NSC 1106-1306 and PSY 2402 or consent of instructor.

An intensive introduction to the scientific literature in behavioral neuroscience. Students will be exposed to the contemporary literature through an examination of fundamental contributions in several areas. Preparation of a serious paper in a specific area of current research interest is required.

4324 Research on the Senses and Perception (Cross-listed as PSY 4324)

Pre-requisite(s): NSC 1106-1306 and PSY 2402 or consent of instructor.

A study of individual problems in perception through directed reading, independent research, and/or laboratory work.

4330 Behavioral Neuroscience (Cross-listed as PSY 4330)

Pre-requisite(s): NSC 1106-1306 and PSY 1305, or consent of instructor.

A study of the structure and function of the human nervous system as related to behavior.

4371 Advanced Research in Neuroscience

Pre-requisite(s): Consent of instructor.

An in-depth laboratory research experience in neuroscience as supervised by a faculty mentor. Fee: \$50

4V96 Special Topics in Neuroscience

1 to 4 sem. hrs.

Pre-requisite(s): Consent of instructor.

May be repeated once with change of topic.

Nursing (NUR)

1101 Introduction to the Art and Science of Nursing

First-year student seminar that provides an overview of general student success strategies and an introduction to the mission of Baylor University and the Louise Herrington School of Nursing. A survey of the nursing profession, career opportunities, and a faith-based understanding of holistic care. Includes a field trip that introduces students to nursing faculty members and the clinical setting.

2340 The Experience of Illness

This course examines the human experience of illness using the narratives of persons with a variety of health conditions, essays that reflect upon the meaning of illness, and nursing research. By understanding illness from the patient's point of view, students entering the health professions will be better able to plan and deliver appropriate care. The course emphasizes class discussion and is taught as a seminar. Fee: \$50

3100 Continuum of Clinical Reasoning

Pre-requisite(s): NUR 3310, 3314, 3316, 3414, and 3420.

Test taking skills with a focus on critical thinking. Students will apply skills in a computerized testing setting. On line resources will be utilized. Fee: \$50

3200 Professional Nursing Practice: Introduction to Professional Nursing

Co-requisite(s): NUR 3316, 3420.

Pre-requisite(s): Admission into the School of Nursing.

Professional nursing practice with individuals and families experiencing obvious and/or less complex unmet human needs from diverse populations. Practicum experiences will focus on medical-surgical nursing.

3212 Professional Development: Foundations for Practice

Pre-requisite(s): Admission to nursing major.

Introduces the role of the professional nurse as a member of the interprofessional health care team, through concepts such as the nursing process, standards of practice, and philosophy of nursing from a current and historical perspective. Critical thinking, therapeutic communication and caring are also introduced as tools to enhance the nurse-patient relationship.

3222 Professional Development: Health Promotion and Patient Education

Pre-requisite(s): Admission to the nursing major.

Concepts of health promotion and patient education emphasizing theories, practice and application. Fee: \$50

3224 The Maturing Family

Pre-requisite(s): NUR 3212 and 3314.

Issues and theories of family and aging affecting human needs fulfillment as related to the maturing family and older adult. Fee: \$50

3225 Professional Nursing Practice: Care of the Patient with Medical Surgical Need

Pre-requisite(s): NUR 3212, 3314, 3316, 3330, 3200, and 3420.

Professional nursing practice with individuals and families experiencing less obvious and/or more complex unmet human needs from diverse populations. Practicum experiences will focus on medical-surgical nursing. Fee: \$50

3226 Professional Nursing Practice: Care of the Patient with Mental Health Needs

Pre-requisite(s): NUR 3212, 3314, 3316, 3330, 3200, and 3420.

Professional nursing practice with individuals and families experiencing less obvious and/or more complex unmet human needs from diverse populations. Practicum experiences will focus on mental health nursing.

3314 Health Assessment

Pre-requisite(s): Admission to the nursing major.

Technique for conducting a physical assessment, collecting a health history, and documenting findings. Fee: \$55

3315 Physical Assessment

Pre-requisite(s): Admission to the nursing major.

An auto-tutorial course, for RN students only, which introduces the concepts and techniques of physical assessment across the lifespan. The student will perform physical assessments in the campus lab setting. (3-0) Fee: \$50

3316 Human Needs I

Pre-requisite(s): Admission in nursing major.

Course introduces the human needs framework. Students are introduced to the role of the nurse as a facilitator of the nursing process. Case studies provide opportunities for learners to explore relationships among human needs, identify nursing interventions including those related to pharmaceuticals and plan care for a variety of physiologic, psychosocial and spiritual client needs. Fee: \$50

3317 Human Needs II

Pre-requisite(s): NUR 3314, 3316, 3330, 3200, and 3420.

This course continues the introduction to the role of the nurse as facilitator of the nursing process within the Human Needs Framework. Case studies provide opportunities for learners to actively explore relationships among human needs, identify nursing interventions including those related to ethics and pharmaceuticals, and plan care for a variety of physiologic, psychosocial, and spiritual needs within the context of family. Fee: \$50

3324 The Maturing Family

Pre-requisite(s): NUR 3212, 3316, and 3420.

A study of topics related to human needs fulfillment of older adults, their families, and significant others in their lives. An overview of theories of aging, and survey of social, legal, and political issues and trends in the United States will provide a foundation for the nursing assessment, planning, and delivery of nursing care for the older adult. Learners will also have the opportunities to explore the application of the human needs framework to the aging process. Fee: \$50

3328 Mental Health Nursing: Individuals, Groups, and Family

Pre-requisite(s): NUR 3316, NUR 3330, NUR 3420, NUR 3200, and NUR 3314.

Continued study of human needs framework describing selected human needs categories, relationships among human needs, interruptions in human need fulfillment, and the basis for and techniques of nursing intervention across all levels of care. Fee: \$50

3330 Introduction to Professional Nursing Practice

Pre-requisite(s): Admission into the School of Nursing.

An introduction to the concepts of professional nursing practice, emphasizing the establishment of the nurse-patient relationship, application of the nursing process, and development of psychomotor skills.

3350 Integration to Professional Nursing

Pre-requisite(s): Admission to joint BSN-MSN track.

A professional development course with emphasis upon issues and trends impacting professional nursing practice. Fee: \$50

3420 Pathophysiology and Pharmacology I

Pre-requisite(s): Admission in nursing major.

Course introduces the pathophysiological basis of illness as a hindrance to human needs fulfillment. Epidemiological and genetic factors influential on pathophysiology and pharmacological therapy are addressed. Interferences with human physiologic functioning and adaptive processes are identified. Pharmacological principles are included as an essential element of nursing care. Fee: \$50

3421 Pathophysiology and Pharmacology II

Pre-requisite(s): NUR 3420.

This course continues the introduction to the pathophysiological basis of illness as a hindrance to human needs fulfillment. Epidemiological and genetic factors influential on pathophysiology and pharmacological therapy are addressed. Interferences with human physiologic functioning and adaptive processes are identified. Pharmacological principles are included as an essential element of nursing care. Fee: \$50

3425 Professional Nursing Practice II

Pre-requisite(s): All Semester I courses.

Professional nursing practice with individuals and families experiencing less obvious and/or more complex unmet human needs from diverse populations. Laboratory experiences include medical-surgical and mental health settings. Fee: \$50

3426 Professional Nursing Practice II Fast Baccalaureate

Co-requisite(s): Semester II courses.

Pre-requisite(s): All Semester I courses.

Professional nursing practice with individuals and families experiencing less obvious and/or more complex unmet human needs from diverse populations. Laboratory experiences include medical-surgical and psychiatric settings. Fee: \$50

4010 Medication Administration

Pre-requisite(s): NUR 3414, 3425, 4335, 4345 or 4435.

Self-paced no credit mastery course focused on essential mathematical concepts and related skills in computation of medication dosages. Special considerations of safe dosages in children and of continuous IV infusion of medications are included. An individualized plan is developed for the student following an assessment exam. Fee: \$50

4100 Preparation for Professional Licensure

Pre-requisite(s): All semester I, II and III courses. Can be taken concurrently with other Level IV courses.

This course prepares the student for the process of professional licensure by examination. Students work with the course instructor on test taking strategies, studying techniques and planning for comprehensive exit examinations. Fee: \$65

4225 Professional Nursing Practice: Care of the Childbearing Family

Pre-requisite(s): NUR 3225, 3226, 3317, 3324, 3328, and 3421.

Professional nursing practice with individuals and families experiencing less defined and/or more complex unmet human needs from diverse populations. Practicum experiences will focus on obstetric and newborn nursing. Fee: \$50

4226 Professional Nursing Practice: Care of the Childrearing Family

Pre-requisite(s): NUR 3225, 3226, 3317, 3324, 3328, and 3421.

Professional nursing practice with individuals and families experiencing less defined and/or more complex unmet human needs from diverse populations. Practicum experiences will focus on pediatric nursing.

4240 Professional Development: Transition to Practice

Pre-requisite(s): All nursing courses in Semesters I and II of the major.

Entry into practice and career development concerns, ethical theories, values clarification, and current practice issues affecting the role of the nurse as a professional. Fee: \$50

4309 Parish Nursing

Pre-requisite(s): Consent of the instructor.

Basic preparation to function as a parish/congregation nurse in a faith-based health ministry. This course includes theory related to the theology of health, healing, and wholeness. Roles and functions of the parish nurse are discussed. Emphasis is placed on how to begin a parish nurse ministry including legal and ethical considerations.

4316 Perioperative Nursing

Pre-requisite(s): All courses in Semesters I, II and III of the major or consent of instructor.

Professional nursing practice roles and skills used to promote human needs fulfillment in the preoperative, intraoperative and postoperative phases of a client's surgical experience. (2-1) Fee: \$50

4317 High Risk Perinatal Nursing

Pre-requisite(s): All courses in Semester I, II, and III of the major.

This course focuses upon nursing care to promote human needs fulfillment for families experiencing prenatal, intrapartal, postpartal and/or neonatal complications. Fee: \$50

4320 Complementary Therapies and Traditional Chinese Medicine

Pre-requisite(s): Consent of course instructor.

The purpose of this course is to provide an opportunity for health professions students to experience a study abroad program with a focus on complementary and alternative therapies. Students and faculty will explore health and Traditional Chinese Medicine (TCM) practices within the context of the Chinese culture and health care delivery settings. Students will also examine the Chinese system of health professions education and dialogue with students enrolled in selected programs in China. Fee: \$50

4329 Child Health Nursing in Great Britain

Pre-requisite(s): Completion of Level III or consent of instructor.

This course will explore international similarities and differences within health care delivery systems in the area of child health nursing. Exploration of the international dimensions of the discipline of pediatric nursing will take place in Great Britain. Students will identify care practices that will enhance their own nursing practice. Fee: \$50

4330 Women's Health in Great Britain

Pre-requisite(s): Successful completion of Level II courses or consent of instructor.

Exploration of international similarities and differences within health care delivery systems in the area of women's health nursing. Problems discussed will range from the issues surrounding reproduction to the changing roles of women in society. Exploration of the international dimensions of the discipline of women's health concerns will take place in Great Britain. Fee: \$50

4331 Health Care in Argentina

Pre-requisite(s): Completion of Level III courses or consent of instructor.

Students will compare and contrast health care delivery and nursing care in United States and Argentina. They will tour local hospitals and clinics, follow Argentinian nursing students in their community visits, and hear from local faculty about nursing care in Argentina. Fee: \$50

4334 The Childbearing Family

Pre-requisite(s): NUR 3317, 3324, 3328, 3421, 3225 and 3226.

Study family process, childbearing and nursing care to promote human needs fulfillment of the developing family. Fee: \$50

4335 Professional Nursing Practice: Transition to Practice.

Pre-requisite(s): All semester III courses and successful completion of semester IV math med exam.

Integrates professional nursing practice while delivering care to diverse clients experiencing complex unmet needs. Clinical settings for this concentrated, 135-hour capstone will be determined following course guidelines with consideration given to student's preferences. Fee \$75.

4338 Analysis and Synthesis of Complex Human Needs

Pre-requisite(s): All Semester III courses.

Analysis of individuals with multiple and/or complex disruptions of human needs and the effect on individuals, families, groups, and/or communities. A case-study/discussion format will be used to integrate physiological, psychosocial, and spiritual needs across the lifespan. Fee: \$50

4339 The Childrearing Family

Pre-requisite(s): NUR 3317, 3324, 3328, 3421, 3225 and 3226.

Identify nursing care to promote fulfillment of human needs in the childrearing family. Specific health problems of the individual from infancy through adolescence which disrupt the integrity of the family are addressed. Fee: \$50

4340 Global Health (Cross-listed as PUBH 4340)

Pre-requisite(s): NUR 3200, 3212, 3314, 3316, 3330, 3420

Overviews global health issues and the role of health education and public health worldwide.

4341 Nursing Professional Development: Leadership and Management

Pre-requisite(s): Completion of NUR 3225, 3226, 3317, 3324, 3328 and 3421.

Analysis of the concepts of leadership and management in professional nursing, including entry into practice and career development concerns, ethical theories, value clarification, the business of healthcare, and the management process. Fee: \$50

4345 Professional Nursing Practice: Population Health Nursing

Pre-requisite(s): All Semester III courses.

Professional nursing practice emphasizing meeting the health needs of communities. Practicum experiences will focus on Community Health Nursing. Fee: \$75

4347 Nursing Clients with Substance Abuse Problems

Pre-requisite(s): All courses in Semesters I, II, and III of the major or consent of instructor.

A study of nursing care including health promotion, prevention and treatment of a variety of client populations experiencing alcohol and drug problems including race/ethnic minorities, the elderly, adolescents and women. Nursing research related to alcohol and drug problems and the role of the nurse in advanced practice in addictions nursing will be investigated. (2-1) Fee: \$50

4351 Professional Development: A Consumer of Research

Pre-requisite(s): NUR 3317, 3324, 3328, 3421, 3225, 3226.

Concepts and methods of research. Fee: \$50

4353 Community and Culture

Pre-requisite(s): NUR 4351, 4334, 4339, 4341, 4225 and 4226.

The nurse's responsibility in the delivery of health care to communities. Emphasis is placed on identifying unmet human needs and designing and evaluating culturally appropriate nursing care. Fee: \$50

4356 Oncological Nursing

Pre-requisite(s): All courses in Semesters I, II, and III of the major or consent of the instructor.

The application of the nursing process for clients experiencing unmet human needs related to cancer. Nursing care will encompass health promotion, maintenance, restoration, rehabilitation, and illness prevention. Laboratory experiences with oncology clients will be provided. (2-1) Fee: \$50

4357 Women's Health Concerns

Pre-requisite(s): All courses in Semesters I, II, and III of the major or consent of the instructor.

This course will serve as an overview of physical, social, behavioral and environmental health concerns and needs of women throughout their life-spans. The course is designed to expand prior knowledge as it relates specifically to women's health, including the latest developments in the prevention, diagnosis, and treatment of diseases, and the impact of social, policy, and environmental factors on women's health. Fee: \$50

4358 The Role of the Nurse as Lactation Educator and Consultant

Pre-requisite(s): Completion of all Level III courses or consent of instructor.

Nursing care required to promote human needs fulfillment for families who have chosen breastfeeding as the method for providing nutrition for their newborn/infant/toddler. Fee: \$50

4359 Health Promotion

Pre-requisite(s): Level I & II and commitment to pursue an activity to improve personal health.

This course focuses on knowledge, skills, beliefs, and values from previous life experiences and nursing courses in order to develop a broader understanding of human needs through the study of health and health promotion. The course will provide an opportunity for the student to examine his/her own values and beliefs in order to meet human needs through an individualized program and personal health promotion. Fee: \$50

4360 Nursing and Health Care in Great Britain

Pre-requisite(s): NUR 3200, 3212, 3314, 3317, 3330, and 3420.

Becoming more familiar with health care systems outside the United States equips nurses to expand their perspective and provide care that is competent, compassionate and current. This course will examine nursing within the British health care system, including nursing education, nursing roles within the health care system and health policy.

4376 Nursing Care of the Family Experiencing Violence

Pre-requisite(s): All courses in Semesters I, II, and III of the major or consent of the instructor.

A study of an interdisciplinary approach for the care of the family experiencing violence. Human needs are examined as they relate to dysfunctional interaction among family members. Assessment and plans for nursing interventions are made within the context of family, community, and society. (3-0) Fee: \$50

4377 Transcultural Nursing: Integrating Care for Spiritual and Physical Needs

Pre-requisite(s): All courses in Semesters I and II of the major.

Health care needs for clients from selected cultural groups having various religious and/or spiritual beliefs. Emphasis is placed on the impact of spiritual aspects that influence the client's seeking and accepting health care. Adaptation of nursing care including assessment, nursing interventions, and client teaching to clients of selected cultures will be explored. The role of the nurse in integrating care for both spiritual and physical needs of the client will be emphasized. (2-1) Fee: \$50

4378 The Role of the Clinical Research Nurse

Course will serve as an introduction to the specialty practice of Clinical Research Nursing (CRN) and provide the foundation on concepts essential to the dimensions of CRN practice. Course will be hybrid; students to participate in prescheduled in-class seminars and online class assignments. Course also includes one-to-one mentorship with assigned CRN. Honors College students will develop thesis proposal in addition to course requirements. Fee: \$50

4387 Environmental Issues and Their Impact on Health and Human Needs

Pre-requisite(s): All courses in Semester I and II of the major or consent of the instructor.

A study of environmental issues and examination of their effect on human needs fulfillment. A review of the United States' progress in improving the condition of its environment and the management of its natural resources is included. (3-0) Fee: \$50

4388 Emergency Nursing

Pre-requisite(s): All courses in Semester I, II, and III of nursing major or consent of instructor.

Nursing care that facilitates human need fulfillment for a diverse population of clients in an emergency setting. Students will be provided an opportunity to enhance previously learned nursing skills as they are applied to promote, maintain and restore an optimal level of health to individual clients and families. Fee: \$50

4389 Nursing and Spirituality

Pre-requisite(s): All courses in Level I and II or consent of instructor.

Concepts of spirituality and the relationship to the development of the professional nurse. Emphasis placed on application of Christian values and standards to nursing practice. Fee: \$50

4390 Camp Nursing Elective

Pre-requisite(s): NUR 3100, 3310, 3314, 3316, 3317, 3324, 3414, 3420, 3421, 3425, and 4334.

This course explores the aspects of nursing in a Christian camp setting. The focus of this course is on applying the nursing process to identify and fulfill the needs of the well child (school age through adolescents) and adult. This course consists primarily of direct provision of nursing interventions under supervision of an RN and/or physician. Fee: \$50

4391 Care of the Geriatric Client

Pre-requisite(s): Completion of Semester III level courses or consent of instructor.

In-depth nursing knowledge, skill and understanding in dealing with chronic disease states of the geriatric population with exploration of interdisciplinary approaches and community resources. The role of the geriatric nurse will be emphasized. The Standards of Gerontological Nursing will be utilized as a guide for nursing care of the geriatric adult. Fee: \$50

4395 Introduction to Global Health Cross-listed as PUBH 4340

Pre-requisite(s): NUR 3200, 3212, 3314, 3316, 3330, 3420

This study abroad course will increase understanding of complex global health topics and diverse population health care needs. Cultural, community, environmental, economic, political, and policy influences on global health will be explored. The course focuses on key global health concepts to enhance effectiveness in health care related policy and practice for interdisciplinary students interested in global health.

4396 Independent Study

Pre-requisite(s): All courses in Semesters I and II of the major.

Additional course Pre-requisite(s)s vary with topic selected. Subject to proposal approval. GPA 2.75. The opportunity for in-depth study in an area of nursing of his/her choice is provided. Following approval of course proposal, the student will, in collaboration with an assigned faculty member, implement and evaluate the learning experience. (3-0) Fee: \$50

4397 End of Life Care

Pre-requisite(s): Completion of all Semester I II, and III courses or consent of the instructor.

In-depth exploration of the alteration in human needs and the nursing care required by terminally ill clients and their families. Fee: \$50

4398 Introduction to Critical Care Nursing

Pre-requisite(s): All courses in semester I, II and III of major.

Focus on nursing care and issues that are commonly associated with clients admitted to Critical Care Nursing Units. Clinical experiences will provide an opportunity to enhance previously learned nursing skills for application within the framework of nursing practice in the complex setting. Fee: \$50

4435 Professional Nursing Practice III

Pre-requisite(s): All Semester II courses.

Professional nursing practice with individuals and families experiencing less defined and/or more complex unmet human needs from diverse populations. Laboratory experiences include acute care and outpatient pediatric and obstetric settings. Fee: \$100

4436 Professional Nursing Practice III Fast Baccalaureate

Co-requisite(s): Semester III courses.

Pre-requisite(s): All Semester II courses.

Professional nursing practice with individuals and families experiencing less defined and/or more complex unmet human needs from diverse populations. Laboratory experiences include acute care and outpatient pediatric and obstetrical settings including neonatal settings, women's health clinics, and childbirth parenting classes. Fee: \$50

4V06 Life Span Development 1 to 4 sem. hrs.

This variable credit course provides the opportunity for students who have taken a human development course that did not cover the whole lifespan to meet the requirements by independent study. Fee: \$50

4V07 Special Studies in Nursing 1 to 4 sem. hrs.

This variable credit course provides the opportunity for students who have taken nursing courses at another university to meet our course objectives which were not covered by those courses. Fee: \$50

4V08 Special Topics in Nursing 1 to 3 sem. hrs.

The special topics, variable credit course provides opportunity for independent and individualized courses of study. This course does not satisfy the elective credit in the major. Fee: \$50

4V67 Nursing Care of the Transplant Client 3 to 4 sem. hrs.

Pre-requisite(s): All courses in Semesters I, II, and III of the major or consent of the instructor.

The application of knowledge and skills from previous nursing courses to the care of individuals with a serious illness requiring an organ transplant and nursing care to facilitate human needs fulfillment. Laboratory experiences on the transplant units, in intensive care and the transplant clinic will provide opportunities for increasingly complex decision-making and psychomotor skills and application to all levels of care. (2-1) Fee: \$50

Nutrition Sciences (NUTR)**1401 Introduction to Food Science**

Comprehensive study and experimental laboratory investigation of food constituents with a focus on chemical and physiochemical properties and reactions, including sensory evaluation, microbial safety, and food preservation. Fee: \$75

2101 Introduction to the Profession of Nutrition and Dietetics

History of the profession and the skills and functioning of nutrition and dietetics professionals. Prepares students for their undergraduate major and for entrance into the supervised practice.

2351 Nutrition

Pre-requisite(s): CHE 1300 or 1301 or 1405; or BIO 1305 or 1401 or 1405.

Scientific approach to the essential nutrients for human growth and development. Macronutrients, micronutrients, and human metabolism have details coverage; a computer diet analysis is conducted. (3-0)

2380 Introduction to Food Delivery Systems

Pre-requisite(s): A minimum grade of C in NUTR 1401 and NUTR 2351, or consent of the instructor.

Introduction to meal service in the setting of the home, institutions, child care, and restaurants. Management of meal planning, preparation, and service. Emphasis on equipment usage and maintenance and time, money, and nutrient management. (2-2) Fee: \$75

2390 Nutritional Mechanisms and Metabolism

Pre-requisite(s): CHE 1301-1100.

Properties and metabolism of nutrients with an emphasis on their interrelationships in health and disease. (3-0)

3188 Introduction to the Nutrition Care Process

Pre-requisite(s): Upper-level standing.

Introduction to the Nutrition Care Process (NCP) with an emphasis on the Nutrition Assessment and Nutrition Diagnosis components of this standard protocol, including application of nutrition-focused physical assessment. Medical terminology pertinent to the NCP will also be discussed.

3314 Consumer Nutrition

Pre-requisite(s): Upper-level standing.

Survey of basic nutrition and current issues focusing on personal nutrient needs. Not open to nutrition sciences majors, minors or other students who have taken NUTR 2351.

3351 Nutrition Counseling and Education

Pre-requisite(s): A minimum grade of C in NUTR 2351.

Nutrition counseling and education strategies that can be used for dietary behavior change, emphasizing practical aspects of nutrition counseling.

3386 Advanced Food Science

Pre-requisite(s): A minimum grade of C in NUTR 1401; and BIO 1305, CHE 1301 and 1341, STA 1380 or 2381.

Investigation of the composition, functional properties, and reactions of food components. The study of chemical-physical changes which result from processing materials comprising foods. Study of experimental techniques for product development. (2-2) Fee: \$75

3388 Introduction to Medical Nutrition Therapy

Pre-requisite(s): BIO 1305, 3422; CHE 1301, 1341; NUTR 3188; and a minimum grade of C in NUTR 2351.

In-depth study and proficiency testing of the nutrition care process, medical vocabulary, medical records, clinical math, diabetes, and cardiovascular disease.

3435 Food Service Production

Pre-requisite(s): A minimum grade of C in NUTR 1401, 2351, and 2380.

Quality food production techniques, procedures, and management of meals serving fifty or more people. The function and methods of food management (for profit) will be emphasized in this course. (3-3) Fee: \$75

4151 Nutrition Practicum

Pre-requisite(s): Departmental approval required.

Supervised field experiences in nutrition education and program delivery. A minimum of one hour each week is required in a seminar setting. May be repeated for a maximum of 4 credit hours.

4200 Seminar in Nutrition Sciences

Pre-requisite(s): Senior standing or consent of the instructor.

Professional aspects of nutritional sciences with concentration on ethics, credentialing, communications, marketing, and public policy techniques. (2-0)

4351 Life Cycle Nutrition

Pre-requisite(s): A minimum grade of C in NUTR 2351 or consent of instructor.

Nutritional needs of individuals as they progress through the life cycle from birth through aging, with considerations of concomitant problems. (3-0)

4352 World Nutrition

Pre-requisite(s): A minimum grade of C in NUTR 2351 or consent of the instructor.

World hunger as a major international problem. The effects of malnutrition on growth, health, and economic output will be examined. (3-0)

4386 Nutrition for Sport and Fitness

Pre-requisite(s): NUTR 2351 or consent of instructor.

Nutritional concepts for individuals and team sport participants across the life cycle with a particular focus on selection of optimal dietary approaches as related to performance needs, maximizing performance, body comparison, energy balance, and unique nutrient needs for specific sport participants. Food and nutrition quackery in sports will also be addressed.

4387 Advance Nutrition

Pre-requisite(s): Nutrition Sciences majors must have a grade of C or higher in NUTR 2351, BIO 1305, CHE 1301, 1341, and 3341.

Nutrients and their roles in human health. Emphasis on trends in nutritional research. (3-0)

4388 Medical Nutrition Therapy

Pre-requisite(s): A minimum grade of C in NUTR 3388.

In-depth study of various disease states with a focus on pathophysiology and evidence-based medical nutrition therapy interventions. Field experience in clinical dietetics is required. (3-0)

4395 Special Studies in Nutrition, Food science and food production

Current issues in nutrition, food science or food production can be explored through seminars, special topics, and practicums. May be repeated with different content for a maximum of 6 semester hours.

Philanthropy & Public Service (PPS)

1100 Introduction to Citizenship and Community Service

Volunteerism and community service as related to poverty, literacy, local political participation, mentoring, peer education, community law enforcement, gender, and neighborhood development. In addition to one weekly classroom hour, a minimum of two hours per week of community service is required. May be repeated a maximum of four times with a different topic each time.

1102 Community Law Enforcement

Examination of the criminal justice system, law enforcement, police, courts, and the corrections system through service-learning, as well as classroom instruction.

2301 Leadership and Social Change

Theory and practice of leading groups toward positive social change, emphasizing issues such as poverty, public education, and systemic inequality. A minimum of sixty hours of public service outside of class required.

3300 Citizenship, Community, and Service Learning

Pre-requisite(s): Upper-level standing or consent of instructor.

Intensive integration of academic study with service-learning opportunities in the community. Course emphasis will vary by semester. Seminar discussions, readings, and personal reflection will enrich the community volunteer experience. A minimum of three hours per week of community service is required.

3301 Public Policy Innovation and the Common Good

The role of public and private actors in the making and implementation of public policies directed to address complex problems. Special focus on the collaborative efforts of government and nonprofit entities as they seek solutions that contribute to the public good.

3302 Criminal Justice and Community Law Enforcement (Cross-listed as PSC 3302)

Examination of the criminal justice system, law enforcement, police, courts, and the corrections system from the perspective of law enforcement personnel, alleged offenders, and victims of crime.

3372 Law, Justice and the Community (Cross-listed as PSC 3372)

Pre-requisite(s): Upper-level standing.

Introduction to legal practice. Contains community service component and required internship in legal offices.

4310 Philanthropy, Civil Society, & the Public Good

Pre-requisite(s): Upper-level standing.

The role of philanthropy and civil society in public problem solving with an introduction to ethics and importance of financial giving and community investments. Students will spend significant time outside class working with foundations and nonprofits.

4V98 Advanced Study in Philanthropy and Social Innovation

1 to 4 sem. hrs.

Advanced study in philanthropy, the social sector, and social innovation, with emphasis on cross-sector collaboration and innovative approaches to pursuing the public good.

Philosophy (PHI)**1306 Logic**

A critical analysis of the principles and methods used to distinguish correct from incorrect reasoning. The student examines uses of language, definitions, and informal fallacies. Included is an introductory study of the logic of the syllogism, the logic of truth functions, the logic of extended propositional proofs, the logic of relations, and the logic of experimental methods used in the sciences. The student is assisted in developing his or her ability to think critically and coherently and to construct well-formulated arguments.

1307 Critical Thinking

The development of critical, coherent, and creative thinking, including understanding, analyzing, and evaluating the claims of others, organizing ideas clearly, and constructing sound arguments. Development of sensitivity to argumentation technique and to the language in which arguments are expressed, with particular attention to the persuasive techniques of advertising and other controversial issues in the mass media.

1308 Introductory Topics in Ethics

An introductory study of philosophical issues related to moral, social, and political life. Variable topics, possibly including morality and modernity, friendship, just war and pacifism, love and sex, the seven deadly sins, poverty, affluence, environment, business, or medical or professional ethics. May be repeated once provided the topic is different, not to exceed six hours.

1309 Introduction to Medical Ethics

Introduction to philosophical reasoning regarding medical ethics, including confidentiality, intervention in the beginning and ending of human life, and just distribution of medical resources.

1310 Computer Ethics

Analysis of ethical problems for information technologies. Topics include ethical implications of new possibilities in information technologies, privacy, ownership, professional codes of conduct as they relate to society, and role of information technologies in shaping morality of government, education, politics, business, and society.

1321 Introductory Topics in Philosophy

Pre-requisite(s): Students will be required to take the English Placement Exam (EPE) before registering for a course on the Research Writing Distribution List, unless they have achieved one of the following: A score of 20 or above on the English component of the ACT, or a score of 500 or above on the Critical Reading component of the old SAT or 28 or above on the Reading component of the new SAT.

An introductory study of major philosophical topics, themes, and thinkers. The course aims to develop the ability to read texts critically and to think clearly about such fundamental issues as God, human knowledge and the nature of reality.

2301 Existentialism

An examination and evaluation of philosophical themes and methods in existentialist writings. Themes such as freedom, anxiety, despair, nothingness, alienation, death, God, the impotence of reason, the conflict between individuality and the dehumanizing tendencies of mass society, and the conflict between authentic self and inauthentic self are considered. Attention is focused upon the work of such thinkers as Kierkegaard, Nietzsche, Jaspers, Heidegger, Marcel, Sartre, and Camus.

2303 Philosophy in Literature

A critical engagement of the philosophical ideas represented in selected literary texts, such as science fiction, dystopian fiction, the inklings, or existentialist literature, indicated by course subtitle. Examines a wide variety of philosophical topics with special attention to the role of imagination.

2305 Philosophy and Religion

A critical analysis of the rationality of religious beliefs, principally those in the theistic tradition. Topics may include the existence of God, evil, religious language, religious experience, faith and reason, and individual religious commitments in a pluralistic world.

2308 Philosophical Texts

A study of central philosophical texts in their historical context and for their enduring philosophical contributions. Possible texts include Plato's Republic; Aristotle's Nicomachean Ethics, Augustine's Confessions, St. Thomas's Summa, Descartes' Meditations, Kierkegaard's Fear and Trembling, and Nietzsche's Thus Spoke Zarathustra. May be taken a maximum of two times if different topics, not to exceed six semester hours.

2309 Philosophical Traditions

An introductory study of a central philosophical tradition in its historical context and for its enduring philosophical contribution. Possible traditions include existentialism, feminism, political liberalism, pragmatism, post-modernism, naturalism, positivism, and scholasticism. May be taken a maximum of two times if different topics, not to exceed six semester hours.

2310 Law, Science and Society

A study of philosophical issues arising at the intersections of law, morality, science, and society. The course will consider such issues as the proper relation between morality and law, civil disobedience, racism, feminism, equal opportunity and justice, abortion, euthanasia, animal rights, punishment, pornography, creationism, and moral aspects of technological development.

2370 Business Ethics

An analysis of moral issues that arise within the economic sphere of society and specifically within profit and nonprofit organizations. The nature and justification of moral decision making will be examined. Topics may include moral issues involving the relationships between business and other social organizations, ecology, the social responsibility of entrepreneurs, and personnel and policy decisions.

3301 Moral Philosophy

A critical study of problems in moral judgment and evaluation, with analysis of presuppositions and justifications used in moral discourse. Problems such as freedom and determinism, relativism and absolutism, conflicts of duties and ends, grounds of moral obligation, and choices involving personal and social goals are also studied. This course will introduce students to a number of major primary sources in the history of moral philosophy.

3305 British Philosophy and Culture

This course is designed for Baylor University's study-abroad program. (Note: see section in this catalog regarding foreign study.) While the specific course content will vary with the instructor, attention will be given to the way issues have been addressed by philosophers in the British Isles such as Thomas More, Francis Bacon, Hobbes, Locke, Hume, John Stuart Mill, Wittgenstein, Bertrand Russell, and Gilbert Ryle. The philosophical ideas of literary figures such as Jane Austen, Robert Browning, and William Wordsworth may also be considered. Discussions will be developed in the rich settings of cathedrals, theaters, universities, and museums.

3310 History of Philosophy: Classical Philosophy

Historical context in which philosophy developed and how the original issues of philosophy continue to inform historical and contemporary philosophical debate. Emphasizes the reading of primary sources: Homer, Hesiod, the pre-Socratics, the Sophists, Plato, and Aristotle, and the study of Stoicism, Epicureanism, and Skepticism.

3312 History of Philosophy: Modern European Philosophy

A study of the major developments in philosophy from the Renaissance through the first half of the nineteenth century. The demise of late Scholasticism, the rise of modern science, the philosophies of the Continental Rationalists and the British Empiricists, the critical philosophy of Kant, and German Idealism are considered. Philosophers studied include Descartes, Leibniz, Spinoza, Hobbes, Locke, Berkeley, Hume, Kant, Hegel, Marx, Schopenhauer, Kierkegaard, and Nietzsche.

3318 Philosophy and Constitutional Issues

Pre-requisite(s): Upper-level standing.

The examination of certain philosophical issues that are raised by the U.S. Constitution, and especially by the Bill of Rights and the 14th Amendment.

3320 Philosophical Issues in Feminism

A critical study of philosophical issues in feminism including moral issues of equal rights and justice, sex role stereotypes, equal opportunity and reverse discrimination, equality between the sexes, abortion, and philosophers' theories of feminism. Topics may vary from semester to semester.

3322 Philosophy and the Arts (Cross-listed as ART 3390)

A survey of the major contemporary sources in aesthetics. Problems discussed are concerned with the aesthetic experience, the interpretation of art (including the definition of art, the nature of metaphor, the relation of art to knowledge, meaning in art), and criticism in literature and other art forms.

3339 Law and Religion (Cross-listed as PSC 3339 and REL 3339)

Relationships between government and religion, especially, United States Supreme Court decisions dealing with prayer and Bible reading in public schools, government aid to church-related schools, and religious liberty rights of individuals and churches. Philosophical debates about the nature of religious free exercise and establishment, their justification, and their relationship to different political theories. Note for undergraduate religion majors: This course will be accepted as three elective hours on a religion major, but will not be accepted for credit on a minor in religion or toward the six hour religion requirement by the University.

3395 Historiography and the Philosophy of History

Pre-requisite(s): Six semester hours of history or consent of instructor.

An introduction to ancient, medieval, and modern historiography and the development of the philosophy of history. Critical consideration will be given to traditional thought about concepts fundamental to history, including the ideas of historical explanation, purpose, cause, and interpretation. Emphasis will be given to methods of historical research and writing.

4300 History of Medicine (Cross-listed HIS 4300 and MH 4300)

See MH 4300 for course information.

4310 Philosophy of Science

An analysis of philosophical problems about science. Such central concepts as law, causation, induction, hypothesis, theory, verification, and models are studied. Presuppositions and methodologies of different sciences may be examined. The relation of scientific views to moral, social, and metaphysical problems is considered.

4311 Epistemology

A critical examination of classical and current problems in theories of knowledge. Attention is given to such problems as meaning, truth, the knowing situation, universals, knowledge of the external world and of other minds, and validation of knowledge claims. The contributions of recent movements such as logical empiricism, linguistic analysis, phenomenology may be studied.

4314 History of Philosophy: Patristic and Medieval

The history and development of philosophy from 250 to 1400 A.D. Some of the major philosophers studied include Augustine, Boethius, John Scotus Erigena, Anselm, Abelard, Avicenna, Averroes, Maimonides, Bonaventure, Thomas Aquinas, John Duns Scotus, and William of Ockham. Special emphasis will be placed on the significance of pre-Enlightenment thinkers to the development of the Enlightenment and Modernity.

4317 Philosophy of Mind

Pre-requisite(s): Upper-level standing or consent of instructor.

Critical examination of current problems in philosophy of mind, focusing on the relationship between mind and physical world. Central issues include the nature of consciousness, and the nature of mental content; secondary topics may include, reductionism, functionalism, non-reductive materialism, epiphenomenalism, panpsychism, and dualisms of various forms.

4318 Philosophy of Law

A critical study of historical and contemporary approaches to primary issues in jurisprudence and the philosophy of law, including tort law, criminal law, and Constitutional law.

4319 Philosophical Writing, Research and Oral Presentation

Pre-requisite(s): Upper-level standing and consent of instructor.

Enhancing philosophical writing skills, promoting proficiency with new computer research technologies, and refining oral communication skills.

4320 The Philosophy of Religion

A philosophical inquiry into such topics as the existence and nature of God, religious experience, immortality, the problem of evil, the relationship between reason and faith, the meaning of religious language and symbols, and the validity of religious knowledge claims. Methods of contemporary philosophical analysis are used in clarifying religious concepts.

4321 Metaphysics

Pre-requisite(s): Two philosophy courses (or the equivalent in philosophical content from courses from Great Texts, BIC, or other departments, as approved by the instructor).

A critical analysis of classical and contemporary metaphysical systems and problems. These include the world views found in the philosophies of naturalism, idealism, personalism, positivism, pragmatism, organicism, and existentialism. Problem areas considered are mind-body relations, cosmology, ontology, philosophical anthropology, universals, determinism, and freedom. Basic categories such substance, cause, time, space, matter, and form are critically examined. Attention also is focused upon methods and criteria employed in metaphysical study.

4324 Philosophy in Literature

A critical study of philosophical material in literature, that is, a study of the philosophy to be found in essays, novels, poems, and plays. Among the authors usually studied are Plato, Aristotle, Theophrastus, Lucretius, Voltaire, Goethe, Ibsen, Nietzsche, Kafka, Camus, Sartre, Malraux, Hesse and selected contemporary novelists.

4325 Literary and Philosophical Perspectives on Medicine

Examination of literature dealing with illness, disease, pain, and death in order to understand better how societal perceptions and values of the care-giver affect the patient.

4331 Latin American Philosophy

Pre-requisite(s): Upper-level standing.

Philosophical and intellectual movements in Latin America from the colonial times to the present. These movements include scholasticism, eclecticism, utilitarianism, romanticism, positivism, vitalism, phenomenology, and existentialism and philosophies of liberation. Works of major representatives of these movements (including such men as Bello, Mora, Sierra, Varona, Deustua, Caso, Korn, Vasconcelos, Farias Brito, Vaz Ferreira, and Romero) are studied.

4340 East Asian Philosophy (Cross-listed as AST 4340)

An historical and critical survey of the major movements in Chinese, Indian, or Japanese philosophy. Course may be repeated once with different area of concentration.

4341 Contemporary Continental Philosophy

A critical study of philosophical movements in Europe during the past one hundred and fifty years. Some of the major philosophers studied include Nietzsche, Husserl, Adorno, Heidegger, Merleau-Ponty, Sartre, de Beauvoir, Wittgenstein, Russell, Carnap, Gadamer, Habermas, Lyotard, Foucault, and Derrida. Movements studied include phenomenology, positivism, naturalism, critical theory, existentialism, structuralism, deconstructionism, and post modernism. Course may be repeated once with a different area of concentration.

4342 Contemporary American Philosophy

A critical study of philosophical movements in the United States during the past one hundred years. Some of the philosophers whose works are studied include Pierce, James, Royce, Dewey, Mead, Lewis, Santayana, Whitehead, and Quine. Recent movements such as critical realism, naturalism, humanism, personalism, logical positivism, and linguistic analysis are also studied.

4345 Intermediate Logic

Pre-requisite(s): Upper-level standing.

The language of first-order logic as a formal deductive system.

4353 Philosophy of Language

Pre-requisite(s): Upper-level standing.

Critical examination of the basic problems in general semantics and philosophy of language, giving special attention to the major authors in these fields.

4360 Contemporary Ethical Theory

Pre-requisite(s): Two philosophy courses (or the equivalent in philosophical content from courses from Great Texts, BIC, or other departments, as approved by the instructor).

Major issues in contemporary ethical writings. Course may be repeated once for credit if topic varies.

4361 Social Philosophy (Cross-listed as PSC 4353)

A critical survey of the fundamental concepts and theories used in justifying social institutions. Problems such as authority, law, freedom, rights, equality, responsibility, power, justice, the state, and justification of open societies are considered.

4363 Philosophy and Medicine

Philosophical approaches to clinical medicine and contemporary health care, focusing on experience as a basis for knowledge.

4365 Jewish Philosophy

Pre-requisite(s): Upper-level standing or consent of instructor.

Jewish philosophy in the twentieth century, with emphasis on the relation between mortality and morality, justice and totalitarianism, faith after the Holocaust, and individualism and revolution.

4379 Islam and Democracy

Pre-requisite(s): Upper-level standing.

Examines the evolution of political philosophy and institutions in Muslim culture.

4385 Religious Ethics in a Liberal Democracy

Pre-requisite(s): Upper-level standing.

Addresses both historical and contemporary arguments about the relationship between religious morality and liberal democracy. Pays particular attention to the debate about the role of religious forms of ethics/morality in public debate, public choices, and the decisions of political actors.

4V99 Special Topics in Philosophy 1 to 3 sem. hrs.

Pre-requisite(s): Senior or graduate standing and consent of instructor.

Faculty-directed individual, group, or class research project. Course may be taken up to three times with a different topic for a maximum of 9 credit hours.

Physics (PHY)

1025 Finding Success in Physics

New Student Experience (NSE) course that introduces students in physics, astronomy or astrophysics to the benefits and challenges of studying these subjects. Includes an introduction to research areas and strategies for problem solving in physics.

1404 Light, Vision and Optics

A conceptual course on the physics of light, optics, photography, vision, color, and other visual phenomena. Fee: \$50

1405 General Physics for B.A. Students

Concepts and historical development of physics; selected topics. (Does not apply toward a major in physics.) Fee: \$50

1407 Sound and Acoustics

Physics of sound and sound production, including the nature of sources of sounds. Introduction to the primary instrumentation used in recording, reproduction, and analysis of the physical properties of sound, and a study of the principal physical properties of architectural acoustics. Fee: \$50

1408 General Physics for Natural and Behavioral Sciences I

Pre-requisite(s): MTH 1320, 1321 or 1322, or equivalent or concurrent enrollment in MTH 1321 or 1322.

The fundamentals of mechanics, heat, and sound, with emphasis on physical concepts, problem solving, notation, and units. (PHY 1408 and 1409 or PHY 1420 and 1430 satisfy premedical, predental, and liberal arts requirements.) Fee: \$50

1409 General Physics for Natural and Behavioral Sciences II

Pre-requisite(s): PHY 1408 or 1420.

The fundamentals of electricity, magnetism, light, and modern physics, with emphasis on physical concepts, problem solving, notation, and units. (PHY 1408 and 1409 or PHY 1420 and 1430 satisfy premedical, predental, and liberal arts requirements.) Fee: \$50

1420 General Physics I

Pre-requisite(s): MTH 1321 or concurrent enrollment.

Principles and applications of mechanics, wave motion, sound, and heat with emphasis on fundamental concepts, problem solving, notation, and units. Fee: \$50

1430 General Physics II

Pre-requisite(s): PHY 1408 or 1420; and MTH 1322 or concurrent enrollment.

Principles and applications of electricity, magnetism, light, and modern physics, with emphasis on fundamental concepts, problem solving, notation, and units. Fee: \$50

1455 Descriptive Astronomy

The fundamentals of astronomy and its relationship to human development. Emphasis on the solar system, planets, asteroids, meteoroids, and comets. Fee: \$50

1V95 Independent Study in Physics

1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor.

Independent study under the supervision of a faculty member in the department. May be repeated once for credit up to a maximum of six semester hours.

2135 Basic Electronics Laboratory

Pre-requisite(s): PHY 1430.

Principles and applications of electrical circuits and electronics for physical science majors. Fee: \$50

2190 Introduction to Research in Physics

Pre-requisite(s): PHY 2350.

Preparation for undergraduate research. Includes an introduction to research techniques, identification of a research supervisor, and completion of a research prospectus.

2350 Modern Physics

Pre-requisite(s): PHY 1430 and MTH 1322.

Special relativity, introduction to quantum mechanics, atomic and molecular structure, nuclear and particle physics.

2360 Mathematical and Computational Physics

Pre-requisite(s): PHY 1430 and MTH 2321; and MTH 2311 or concurrent enrollment.

Topics normally include matrices and vector calculus, coordinate transformations, numerical solutions using Matlab and Mathematica, chaos and fractals, special functions defined by solutions to differential equations.

2455 Foundations of Astronomy

Pre-requisite(s): PHY 1420 and MTH 1321.

Physical and mathematical foundations of modern astronomy emphasizing techniques, history, and development of our current picture of the universe including galaxies, stars, planet, planetoids, and comets. Fee: \$75

3175 Intermediate Physics Laboratory I

Pre-requisite(s): PHY 2350 and 2360.

Study of experimental planning, data analysis, and elementary error analysis. Experiments include the Millikan oil-drop experiment, the determination of the Faraday constant, bubble chamber photographic measurements, the study of GM counters, and radioactive half-life determination. Fee: \$50

3176 Intermediate Physics Laboratory II

Pre-requisite(s): PHY 3175.

Continuation of PHY 3175 with emphasis on nuclear counting and measurements. Fee: \$50

3305 History of Invention and Technology

History of invention and technology including biographical study of scientists. Does not apply toward a major or minor in physics.

3320 Intermediate Classical Mechanics

Pre-requisite(s): PHY 2360 and MTH 3325; or consent of instructor.

Topics normally include vectors, linear transformations, Newtonian mechanics for a single particle, linear and nonlinear oscillations, Euler's equation, Lagrangian and Hamiltonian dynamics, central forces, and orbital motion.

3330 Intermediate Electricity and Magnetism

Pre-requisite(s): PHY 2360: and MTH 3326 or concurrent enrollment; or consent of instructor.

Topics normally include electrostatics, Laplace's equation, method of images, multipole expansion, magnetostatics, and Maxwell's electromagnetic field equations.

3350 Topics in Astronomy

Pre-requisite(s): PHY 2455; and MTH 1322 or concurrent enrollment.

Topics in contemporary research in astronomy and astrophysics.

3372 Introductory Quantum Mechanics I

Pre-requisite(s): PHY 2350, 2360 and MTH 2311; and MTH 3326 or concurrent enrollment; or consent of instructor.

Postulates of quantum mechanics, operators in Hilbert space, superposition principle and compatible observables, time development, conservation theorems, one-dimensional bound and unbound state problems, WKB approximation, and theory of conduction in solids.

3373 Introductory Quantum Mechanics II

Pre-requisite(s): PHY 3372 and MTH 3326.

Problems in three dimensions, perturbation theory, unitary transformations, quantum statistics, atomic spectroscopy, and introductory solid state, nuclear, and elementary particle physics.

3455 Observational Astronomy

Pre-requisite(s): PHY 2455.

Fundamentals of practical sky observing including visual, photographic, and photometric techniques using local telescopes and CCD cameras. Introduction to methods for finding and identifying celestial objects, making observations, and operating an observatory, telescopes, and related equipment. Fee: \$75

3V95 Undergraduate Research in Physics

1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor.

Research conducted under the supervision of a faculty member in the department. May be repeated up to a maximum of six semester hours.

4001 Exit Exam

Pre-requisite(s): Senior standing.

An exit examination, designated by the department, is required of all physics majors. This examination will be chosen by the department from the GRE Subject Test or another similar examination.

4150 Instructional Observing

Pre-requisite(s): PHY 3455.

Teaching astronomy techniques and assisting on observing nights for the PHY 3455 class and campus outreach events.

4190 Dissemination of Research Results in Physics

Pre-requisite(s): Departmental approval required.

Culmination of an undergraduate research project including presentation of research results.

4322 Advanced Topics in Classical Physics

Pre-requisite(s): PHY 3320, 3330, and MTH 3326.

Continuation of PHY 3320 and 3330. Topics normally include: dynamics of systems of particles: rigid-body motion; coupled oscillations; the wave equation in one dimension; gauge transformations; electromagnetic waves in conductors and nonconductors; dispersion; multiple radiation; Lirard-Wiechert potentials; relativistic electrodynamics.

4340 Statistical and Thermal Physics

Pre-requisite(s): PHY 3372 and MTH 3326.

Topics normally include: basic probability concepts; macroscopic thermodynamics; statistical thermodynamics; kinetic theory; quantum statistics.

4350 Introduction to Stellar Structure and Evolution

Pre-requisite(s): PHY 2455; and MTH 3326 or concurrent enrollment.

A quantitative study of the physics of stars and stellar systems. Topics include observed properties of stars and the physics underlying those properties, radiation and stellar spectra, the interior structure of stars, the life cycles of stars, white dwarfs, neutron stars, and black holes.

4351 Introduction to Modern Cosmology

Pre-requisite(s): PHY 4350 and MTH 3326.

An introduction to modern cosmology, including observational cosmology, Newtonian gravity, relativistic cosmological models, thermal history of the universe, dark matter and dark energy, inflationary models, the origin of the light elements, structures in the universe, and the cosmic microwave background radiation. The principles of Einstein's general theory of relativity and observations in experiments will also be covered.

4360 Computer Models in Physics

Pre-requisite(s): PHY 3320, 3372, and CSI 3324.

Application of contemporary computer methods to the solution of physics and engineering problems. Theory and applications of finite difference equations. Deterministic, discrete, and continuous models. Computer graphics. Waves in classical and quantum physics. Monte Carlo calculations, electric circuits, partial differential equations in physics and engineering.

4372 Introductory Solid-State Physics

Pre-requisite(s): PHY 3373.

Topics normally include: crystal structure; reciprocal space; elastic and thermal properties; electronic structure; the Fermi surface; elementary semiconductor physics; dielectric and magnetic properties of solids.

4373 Introductory Nuclear and Particle Physics

Pre-requisite(s): PHY 3373.

Topics normally include: nuclear structure and models; angular momentum and isospin; conservation laws and discrete symmetries; electromagnetic and weak interactions; quark model; nuclear and particle astrophysics.

4374 Introduction to Relativistic Quantum Mechanics

Pre-requisite(s): PHY 3373.

Dirac's equation, its covariance properties, its solutions; Foldy-Wouthuysen transformation and exact results; propagator theory; applications in various areas of physics.

4V80 Special Topics in Physics1 to 3 sem. hrs.

Pre-requisite(s): Upper-level standing and consent of instructor.

Advanced topics in physics, astronomy, or astrophysics. May be repeated once for credit with a different topic up to a total of six semester hours.

Political Science (PSC)

Introductory Government (PSC)

1305 American National Government

A course in American national government with emphasis on the historical background, structure, organization, and functioning of that government.

2302 American Constitutional Development

An historical and institutional study of the background, content, development, and interpretation of the United States Constitution. This course is required for all bachelor's degrees. (This course and PSC 1306 should be taken by students seeking a Texas Teacher's Certificate, or by pre-engineering, pre-dental, pre-medical and other students who may seek a degree from a Texas state-supported school.)

Political Theory/Political Philosophy (PSC)

2343 Introduction to Western Political Philosophy

The Western tradition of political philosophy from Ancient Greece to the present day. This course will not substitute for PSC 2302.

3353 American Political Thought

An examination of American political and constitutional theory, from its philosophical genesis in the works of major early modern thinkers to the contributions of twentieth-century political and legal theorists. The original writings will be stressed.

3363 Western Political Thought: Classical and Medieval

The tradition of western political thought from its origins in Greek antiquity through the Christian middle ages, stressing the original writings of great political philosophers.

3373 Western Political Thought: Modern

Modern political thought from the fifteenth through the nineteenth centuries, stressing the original writings of great political philosophers.

4313 Politics and Literature

Pre-requisite(s): Upper-level standing.

Study of fundamental questions of political theory as treated in works of literature. Topics may include authority, law and discretion, the individual and the community, and the nature of freedom, especially as these issues emerge in different political orders. This course may be taken more than once, for a maximum of six credit hours, when content differs.

4373 Special Topics in Political Philosophy

Pre-requisite(s): At least one 3000-level course in political philosophy, or consent of instructor.

An upper-level seminar on a philosopher, a tradition of thought, or a theoretical problem in political philosophy.

4383 Contemporary Political Thought

Twentieth-century political ideas, with emphasis on contemporary democratic political theory and the challenges posed for traditional democratic ideals by major movements in contemporary psychological, existentialist, ethnic, feminist, socialist, and nationalist thought, and by problems arising from technology, mass society, and the observations of empirical political science.

4352 The Politics of Poverty

Pre-requisite(s): Upper-level standing.

An analysis of the causes of poverty amidst plenty and governmental efforts to address the problem.

4353 Social Philosophy (Cross-listed as PHI 4361)

See PHI 4361 for course information.

4384 Principles of Political Development

The development of contemporary states and nations, emphasizing war, geographic location, natural resources, and cultural and religious norms as determinants of different experiences.

4386 Russia and the World

Pre-requisite(s): Upper-level standing or consent of the Instructor.

Evolution of Russia's foreign policy objectives, its national security strategies and its relations with the US, Europe and post-Soviet states, including spheres of cooperation and rivalry between Russia and the West, regional conflicts, energy politics, non-proliferation and counterterrorism.

4397 Dictatorship, Democracy and Regime Change

This course looks at the origins, institutions and policies of democratic and authoritarian regimes. It explores the variation among autocracies and its effect on their stability and patterns of change, with a special focus on revolutions and negotiated transitions.

Political Theory/Methods (PSC)**3301 Scope and Methods of Political Science**

A course designed to equip beginning political scientists with the basic tools of political analysis used by professional political scientists. The scope of the discipline is explored through the use of primary writings, and the student is introduced to general concepts, theories, approaches, and models as well as basic methodologies and techniques of political research.

American Political Institutions (PSC)**1306 American State and Local Government**

A course in American state government with emphasis on the Texas Constitution and government. (Either PSC 1305 or 1306 will count as one of the social science requirements for the B.A. degree.)

3310 Legislative Process and Behavior

An examination of state and national legislative institutions and processes. Areas covered include the nature of legislative responsibility, organizational structure, the role of parties and lobbying groups, legislative decision making, legislative relations with executive and judicial branches, policy output, and the theory and methods employed by scholars currently working in this field.

3320 Minority and Ethnic Group Politics

A study of the political experiences and public concerns of four major ethnic and minority groups: African-Americans, Mexican-Americans, Asian-Americans, and Native Americans. Topics include employment, immigration, education, police-community relations, political and economic inequality, political movements, leadership patterns, and ethnic conflicts.

3330 The American Presidency

The American presidency as a political institution and as one of the primary components of the United States governmental structure.

3340 Campaigns and Elections

Pre-requisite(s): Upper-level standing or consent of instructor.

The United States electoral process and structure primarily from an institutional perspective with emphasis on the role of political parties, interest groups, and citizens in political campaigns and elections.

4300 Political Behavior

Psychological and social dimensions of political behavior including political images, culture and socialization, participation, leadership, elites, parties and interest groups, voting behavior, and decision-making processes.

4310 Politics and Communication (Cross-listed as CSS 4310)

The dynamic relationships between political and communication institutions; topics include political discourse, news and information, and portrayal of politics in popular entertainment.

4320 African American Politics

Pre-requisite(s): Upper-level standing.

Contemporary African American politics, including leading theories and paradigms, important social and political movements, prominent leaders, party politics, and role of the "Black Church."

4330 Urban Political Processes (Cross-listed as ENV 4330)

Political institutions and processes in metropolitan areas, including social, economic, and governmental problems resulting from increased urbanization.

4340 African American Communication (Cross-listed as CSS 4354)

See CSS 4354 for course information.

4350 Political Parties

Pre-requisite(s): Upper-level standing.

The diverse roles of political parties in representative democracies, with emphasis on the American experience.

4351 Criticism of Contemporary Public Address (Cross-listed as CSS 4351)

See CSS 4351 for course information.

4370 Politics and Religion

Pre-requisite(s): Upper-level standing.

The dynamic interaction between religion and politics in the United States and other countries, including the effect of political outcomes in the context of voting, legislative and executive policymaking, and the law.

4380 Government and Business

Government in relation to the economy. Public policy with respect to such vital areas as maintenance of competition, public utilities, transportation, labor, agriculture, protection of the investor, and foreign economic policy. (Not to be taken if ECO 4317 has already been taken for credit.)

Public Law (PSC)

3302 Criminal Justice and Community Law Enforcement (Cross-listed as PPS 3302)

See PPS 3302 for course information.

3311 Moot Court

Pre-requisite(s): Consent of instructor.

Preparation for Moot Court competitions, which simulate the experience of arguing a constitutional case before the Supreme Court. May be taken twice for a total of six semester hours of credit.

3321 Criminal Law

Examination of the sources, development, and application of criminal law in the United States and Texas.

3339 Law and Religion in the United States (Cross-listed as PHI 3339 and REL 3339)

See PHI 3339 for course information.

3372 Law, Justice and the Community (Cross-listed as PPS 3372)

See PPS 3372 for course information.

4305 International Law

Nature and origins of international law and the rights, duties, and responsibilities of the states under that law, as well as the problems which have arisen in its interpretation and enforcement.

4307 Environmental Law (Cross-listed as ENV 4307)

See ENV 4307 for course information.

4321 Administrative Law

Nature and the law of the administrative procedure, of separation and delegation of powers, and of the scope of judicial review and other remedies against administrative actions.

4361 American Constitutional Law (Cross-listed as PSC 4361)

See PSC 4361 for course information.

4381 American Constitutional Law

Continuation of PSC 4361 but may be taken independently of that offering. Deals with those cases relating particularly to personal liberty and civil rights.

International Relations (PSC)

3315 Fundamentals of International Politics

Theories of international politics will be examined and compared in the light of the evolution of the modern states system. Attention will be given to the factors and variables that affect the formulation and implementation of foreign policies.

3325 Ethnopolitical Conflicts

Survey of communal and ethnically based conflicts, using case studies to explore communal grievances vs. state interests. Examines various forms of political accommodations such as exit, autonomy, access, and control.

3335 Contemporary American Foreign Policy: An Examination of Regions and Issues

Pre-requisite(s): Upper-level standing or consent of instructor.

Assessing continuity and change in foreign policy, including internationalism, isolationism, power, principle, and pragmatism to understand post-World War II American foreign policy. Analysis of evolution, patterns, and trends of American foreign policy.

3345 Making American Foreign Policy

Pre-requisite(s): Upper-level standing.

Values, objectives, processes, and means through which United States foreign policy objectives are formulated and sustained.

3355 The Causes of War

The causes of warfare, as viewed through the lenses of human evolution, psychological approaches, economic system, ideology, and the international system.

3375 Model United Nations

Pre-requisite(s): Consent of instructor.

An overview of the United Nations, including its origins, the six principal organs established by the UN charter, the UN's role in international relations, and the functions of the General Assembly and Security Council. Recommended for those interested in participating in Baylor's Model UN team. May be taken twice.

4303 International Human Rights

Pre-requisite(s): Upper-level standing.

The philosophy and implementation of human rights protection in the United States and abroad.

4315 Political Geography

Concepts and principles of political geography. Analysis of dynamics of spatial relations and interactions of states. Comparison of main approaches, including geo-politics. Study of state elements, especially territorial integrity and frontiers. Survey and analysis of world political patterns.

4316 Grand Strategy

Pre-requisite(s): Upper-level standing.

The relationship between a great power's grand strategy and stability in international politics.

4325 Asian International Relations (Cross-listed as AST 4325)

Historical and cultural background and structure of the emerging international order in Asia, with particular attention to the role of Japan, Russia and the Soviet successor states, and the People's Republic of China.

4335 Public Discourse and Foreign Policy (Cross-listed as CSS 4353)

See CSS 4353 for course information.

4346 Intelligence and Covert Action

Pre-requisite(s): Upper level standing.

The impact of intelligence, counterespionage, and covert action policies on national security policy and international relations.

4355 Power, Morality, and International Relations

Pre-requisite(s): Upper-level standing.

The influence of moral principles on international politics.

4365 International Political Economics

Pre-requisite(s): Junior standing or above.

The intersection of politics and economics at the domestic and international levels. Political outlooks considered include liberalism, Keynesianism, and Marxism.

4375 International Organization

Fundamentals of international politics and international law, advancing to an intensified study of past and, particularly, present international organizations, especially the United Nations.

4385 Diplomacy in Theory and Practice

Pre-requisite(s): Upper-level standing.

How states and other international actors communicate and pursue their foreign policy objectives through the use of diplomatic agents and techniques.

4395 Terrorism

Pre-requisite(s): Upper-level standing.

The effectiveness of terrorism as a coercive strategy for states and non-state actors as well as the threat terrorism poses to the interests of the United States.

4V89 Advanced Model Organization of American States (Cross-listed as
HIS 4V89) 1 to 3 sem. hrs.

See HIS 4V89 for course information.

Comparative Politics (PSC)

3304 Comparative Politics

A comparative study of the principles, structure, and operation of contemporary governmental systems with special attention to the democratic systems of Europe.

3314 Politics and Problems of Developing Countries (Cross-listed as AST
3314)

A survey of the political systems and problems of the developing states of Asia, Africa, and Latin America. Several components of political systems will be examined.

3324 World Political Systems

A comparative survey of the world's political systems with emphasis on political culture, institutions, processes, and policies. Systems to be covered include the democracies of Western Europe, North America and the Pacific, the Communist and former Communist states of Eastern Europe and Asia, and the politically developing states of Africa, Asia, and Latin America.

4304 Governments and Politics of Latin America

Forms of organization, functions, and operations of governments in Latin America, with emphasis on contemporary conditions, trends, and distinctive types of Latin American institutions and policies.

4314 Government and Politics of Mexico

Constitutional development and political processes in the Mexican federal system. Emphasis will be placed on twentieth-century constitutional and political change, with special attention given to the current scene.

4324 British Government and Politics

Foundations, processes, and politics of British government. Emphasis will be given to political parties and interest groups, parliament, cabinet and administration, judiciary, and the prime minister. Analysis of current political issues and policies will be undertaken.

4334 Governments and Politics of the Middle East

Political structures and processes of the Middle East nations with an emphasis on elites, political parties, interest groups, and bureaucracies. Inter-regional relations, nationalism, the impact of religion and the Arab-Israeli conflict will be considered. Problems of nation-building, regional cooperation, as well as super- and great-power penetration, will also be explored.

4344 Government and Politics of Russia

Historical and cultural background, the organization and functions of government, and the theory and practice of Russian politics. Emphasis is given to Russia's relationships with associated states.

4354 Governments and Politics of Western Europe

Pre-requisite(s): Upper-level standing.

A comparative study of the forms of government organization, political processes, and major developments in Western Europe. Course emphasizes parliamentary forms of democracy.

4364 The Governments and Politics of the Asia-Pacific Region (Cross-listed as AST 4364)

Historical development of the Asia-Pacific region, with a focus on the contrasting roles played by China, Japan, and the United States. Discussion of alternative models of economic development and the impact of ASEAN and APEC on regionalism. Survey of the socio-political conditions in and among the region's states, with special attention devoted to Korean unification and cross-strait relations.

4374 Governments and Politics of East Asia (Cross-listed as AST 4374)

Government organization and functions, political processes, and major developments in the political systems of Japan, China, and Korea since World War II.

4379 Islam and Democracy

Pre-requisite(s): Upper-level standing.

Examines the evolution of political philosophy and institutions in Muslim culture.

Other (PSC)**4390 Reading Course in Political Science**

Pre-requisite(s): Senior standing and consent of the chairperson of the department.

A tutorial course designed for advanced study in political science. The nature, limits, and requirements will be established in each instance after consultation between professor and student. May also be taken by student in a particular field after consultation with appropriate professor. May be repeated under a different topic for a total of six hours credit.

4V94 Special Topics in Political Science

1 to 6 sem. hrs.

Examination of special topics in government and politics. May be repeated once under different topic not to exceed six semester hours.

Public Policy/Administration (PSC)**3300 The Environment and Political Processes (Cross-listed as ENV 3300)**

This course explores the causes, the magnitude, and the meaning of the Ecological Crisis and analyzes the way in which environmental problems translate into political issues. Attention is given to the political processes on varying public levels and to political actions that have or have not been taken, or might be taken, on matters relevant to social and physical environments. The purpose of the course is to develop a broad base for informed judgment and for constructive attitudes regarding the growing ecological dilemma confronting all societies.

3312 Principles of Public Administration

An introduction to the principles of organization, personnel relations, and popular control of public administration in the United States. Emphasis will be placed on the practices of the national administration; comparisons will be made with the practices of England, France, and the American states.

3322 American Public Policy

An introductory study of how the dynamics of governmental decision-making influence the content of public policy; course focuses upon how legislators, interest groups, chief executives, and the bureaucracy function to define alternatives and to shape policy agenda and content.

3382 Public Service Internship

Pre-requisite(s): Consent of program director.

Research and seminars supplemented by fieldwork in a regional federal agency, in a state or local governmental agency, or in a not-for-profit agency.

3392 Washington Internship

Pre-requisite(s): Consent of program director.

Research and seminars which will usually include attendance at a seminar held in Washington. Also required is regularly scheduled fieldwork in a governmental or not-for-profit agency located in Washington.

3398 Bob Bullock Internship

Selection as a Bullock Scholar Fieldwork and research in the Texas Legislature or Executive Branch as part of the Bob Bullock Scholars program.

4322 Seminar in Public Administration

Pre-requisite(s): Upper-level standing.

A course for upper-level undergraduates and graduate students contemplating careers requiring administrative skills. Topics, which will be chosen to meet the special needs of students, include the study of public personnel techniques and methods, project design and analysis, and program budgeting.

4342 Public Policy and the Courts

Pre-requisite(s): PSC 2302 or consent of instructor.

The Supreme Court's role in the making of public policy, including its history, its justification, and its limits. Emphasis on court cases and literature covering economic, social and civil rights issues.

Portuguese (POR)

1401 Elementary Portuguese

Introduction to the Portuguese language and culture: pronunciation, grammar, reading of simple texts, and conversation. Fee: \$50

1402 Elementary Portuguese

Pre-requisite(s): POR 1401 or two units of high school Portuguese.

Continuation of POR 1401. Fee: \$50

2310 Intermediate Portuguese

Pre-requisite(s): POR 1402 or three units of high school Portuguese.

Conversation, composition, cultural readings, and grammar review. Fee: \$50

2320 Intermediate Portuguese

Pre-requisite(s): POR 2310 or four units of high school Portuguese.

Continuation of POR 2310. Fee: \$50

3V90 Special Topics in Portuguese

1 to 3 sem. hrs.

Pre-requisite(s): POR 2320 or consent of the instructor.

Independent study of Portuguese language and/or culture. With content changes, may be repeated for up to 6 credits.

Pre-Health Professions (PHP)

1103 Nature of Healthcare Relationships

Examines the nature of healthcare relationship from a number of perspectives, including both the patient and healthcare provider. Explores both professional and ethical issues and the means to cope with them.

1105 Foundations of Medicine

A broad survey of the premedical studies, the preparation for medical school admission, and the medical profession.

1206 Pre-health Professional Development

A blended classroom format with lectures exploring various careers and graduate level study in health-related professions and online content focusing on professionalism in healthcare, assessment of appropriate personal attributes, integrity, interpersonal communication, and career strategies.

2101 Foundations of Medical Research

Introduction to clinical/medical research in an academic medical setting, including medical ethics, research modalities, and evaluation tools.

2102 Medical Research Internship

Internship or research in a clinical setting focusing on formulating a research project, including developing the hypothesis, creating an IRB proposal, gathering and interpreting data, and publishing results.

Professional Development (PRD)**2101 Professional Development**

Resume and cover letter writing, interviewing, networking, and presenting professional self. Exploration of career options, including assessments, internships, job search process, and graduate school admission.

Psychology (PSY)**1101 New Student Seminar in Psychology and Neuroscience (Cross-listed with NSC 1101).**

An introduction to the PSY and NSC majors including the faculty and degree requirements of their major, techniques for academic success, and professional and career options. Satisfies U1000 requirements and is required of all first-year students with a declared major in Pre-PSY or Pre-NSC.

1305 Introductory Psychology

A survey course introducing the student to the field of psychology.

2402 Statistics

Pre-requisite(s): PSY 1305 and a C or better in either MTH 1320, MTH 1321, or STA 1380.

An introduction to descriptive and inferential statistics used in behavioral science research. Emphasis is placed on techniques of data analysis through the use of computers. Fee: \$50

2405 Research Methods in Psychology

Pre-requisite(s): PSY 1305 and 2402.

Research methods used in psychology, including various research designs, appropriate statistical analyses for the research designs, and writing reports using APA style. Fee: \$100

3111 Laboratory in Cognition (Cross-listed as NSC 3111)

See NSC 3111 for course information.

3119 Laboratory in Clinical Neuroscience (Cross-listed as NSC 3119)

See NSC 3119 for course information.

3120 Laboratory in Learning and Behavior (Cross-listed as NSC 3120)

See NSC 3120 for course information.

3123 Laboratory in Sensation and Perception (Cross-listed as NSC 3123)

See NSC 3123 for course information.

3308 Theories of Psychotherapy and Counseling

Pre-requisite(s): PSY 1305 and 2402.

The major schools and current trends in psychotherapy. Discussion also includes issues involving ethical practices and empirical aspects of psychotherapy.

3309 Introduction to Clinical Psychology

Pre-requisite(s): PSY 1305 and 2402.

Students will learn about models of training in clinical psychology and the basic tools used by clinical psychologists in research, assessment/diagnosis, and treatment.

3310 Social Psychology

Pre-requisite(s): PSY 1305 and 2402 or consent of instructor.

A study of individual behavior as affected by cultural and social stimuli.

3311 Cognition (Cross-listed as NSC 3311)

See NSC 3311 for course information.

3314 Industrial/Organizational Psychology

Pre-requisite(s): PSY 1305 and 2402 or consent of instructor.

A survey of personnel and organizational psychology. Topics include job satisfaction, leadership, formal organizational structures and issues relevant to the human relations field.

3318 Psychology of Memory

Pre-requisite(s): NSC 1106-1306, PSY 1305 and 2402 or consent of instructor.

An introduction to the study of human memory, including both laboratory studies and clinical data. This information will be related to major contemporary theories of memory, as well as to a range of phenomena including mnemonics, eyewitness testimony, retention of course content, and supranormal memory. Demonstrations and experiments will complement lecture material.

3319 Clinical Neuroscience (Cross-listed as NSC 3319)

See NSC 3319 for course information.

3320 Learning and Behavior (Cross-listed as NSC 3320)

See NSC 3320 for course information.

3321 Abnormal Psychology

An introduction to historical and modern views of abnormal behavior and a survey of the field of psychological disorders. For non-majors only.

3323 Sensation and Perception (Cross-listed as NSC 3323)

See NSC 3323 for course information.

3330 Psychopathology

Pre-requisite(s): NSC 1106-1306 and PSY 1305.

The paradigms and processes involved in understanding the etiology, course, treatment, and prevention of psychological disorders. For majors only.

3341 A Survey of Human Development

A survey of the field of developmental psychology. Consideration is given to the development of human behavior from conception to death. For nonmajors only.

3350 Lifespan Human Development

Pre-requisite(s): NSC 1106-1306 and PSY 1305.

Human development across the lifespan with emphasis on research, theory and influences on change. For majors only.

3355 Drugs and Behavior

Pre-requisite(s): NSC 1306 or consent of instructor.

A study of the major drugs used to modify mood and behavior; examination of tolerance, dependence, addiction, and treatment. Substances studied include alcohol, anti-psychotic medications, sedatives, stimulants, analgesics, hallucinogens, and other psychoactive substances.

3360 Psychology of Gender

Pre-requisite(s): PSY 1305 and 2402 or consent of instructor.

Introduction to the psychology of gender, with focus on interconnections of social and cultural processes with biological and psychological factors. Additional emphasis on psychological and sociological origins and implications of gender differences as well as similarities.

3370 Affective Neuroscience (Cross-listed as NSC 3370)

See NSC 3370 for course information.

3375 Sleep (cross-listed as NSC 3375)

Pre-requisite(s): NSC 1306.

The psychology and neuroscience underlying healthy sleep, the effects of sleep deprivation on medical outcomes, changes in sleep across the lifespan, sleep disorders, and solutions for improving sleep.

3380 Forensic Psychology

Pre-requisite(s): PSY 1305 and 2402 or consent of instructor.

Psychology as it relates to criminal and civil law.

3399 Positive Psychology and Well-Being

Pre-requisite(s): PSY 1305 and 2402.

Positive psychology theory, research, and interventions.

3406 Comparative Psychology

Pre-requisite(s): NSC 1106-1306, PSY 1305 and 2402 or consent of instructor.

A phylogenetic comparison of animal behavior. Class and field studies stress evolution and the function of behavior. The laboratory consists of four overnight or day field trips which emphasize studies of animal populations, their relationships to local environments, habitat analysis, and ecological research methods. Fee: \$50

3425 Group Processes

Pre-requisite(s): PSY 1305 and 2402, or consent of instructor.

Group dynamics, leadership roles in problem solving, and analysis of interpersonal behavior. (3-3) Fee: \$50

3V90 Community Internship in Psychology 1 to 3 sem. hrs.

Pre-requisite(s): PSY 3321 or 3330 or consent of instructor.

A contracted number of forty, eighty, or one hundred-ten hours of volunteer work during the semester in a community agency dealing with behavioral problems for the one, two, or three semester hours credit respectively. The course may be repeated once. No change in number of credit hours permitted after contract is made.

4130 Laboratory in Behavioral Neuroscience (Cross-listed as NSC 4130)

See NSC 4130 for course information.

4302 Human Development

Pre-requisite(s): PSY 1305 and 2402 or consent of instructor.

Research related to human growth and development.

4312 Behavioral Medicine (Cross-listed as MH 4312 and NSC 4312)

See NSC 4312 for course information.

4315 Psychological Assessment and Psychometrics

Pre-requisite(s): PSY 2402.

Commonly employed psychological tests and the statistical techniques used to develop and validate these tests.

4317 Literature of Behavioral Neuroscience (Cross-listed as NSC 4317)

See NSC 4317 for course information.

4324 Research on the Senses and Perception (Cross-listed as NSC 4324)

See NSC 4324 for course information.

4325 Sports and Exercise Psychology

Pre-requisite(s): PSY 1305 or consent of instructor.

Examines psychological theories and research related to sport and exercise behavior, providing a broad overview of the major topics in the area.

4327 Theories of Personality

Pre-requisite(s): PSY 1305 and 2402 or consent of instructor.

Major theories of personality.

4329 Consciousness

Pre-requisite(s): NSC 1106-1306 and PSY 1305 or consent of instructor.

A study of various theoretical views of the mind and the impact of the cognitive movement in psychology; relevant experimental studies are examined.

4330 Behavioral Neuroscience (Cross-listed as NSC 4330)

See NSC 4330 for course information.

4339 Psychology of Religion

Pre-requisite(s): PSY 1305 or consent of instructor.

Psychological processes in religious experience and related phenomena with a focus on religious development through the life cycle and the major psychological interpretations.

4355 Psychology and Aging

Pre-requisite(s): PSY 1305 or consent of instructor.

Normal and abnormal changes in behavior that occur between early maturity and later maturity, with emphasis on changes in sensation and perception, intelligence, learning, and personality, as well as other areas of a more social psychological nature such as social roles and the impact of environmental change on older people.

4371 Advanced Research in Psychology

Pre-requisite(s): Consent of instructor.

An in-depth laboratory research experience in psychology as supervised by a faculty mentor. Fee: \$50

4380 Psychology of Personal Relationships

Pre-requisite(s): PSY 1305 and 2402; and upper-level standing.

Classic and contemporary theories and research pertaining to personal and social relationships.

4385 Psychology of Film

Pre-requisite(s): PSY 1305 and upper-level standing, or consent of instructor.

The psychological aspects of film, as related to content, audience, and individual viewers. Also covers the portrayal of mental illness and mental health care professionals.

4395 History of Psychology

Pre-requisite(s): PSY 1305 and 2402 or consent of instructor.

A survey of the history of psychology stressing significant persons and theories with some emphasis on contemporary and emerging trends.

4400 Advanced Statistics I

Pre-requisite(s): PSY 2402 or STA 2381 or equivalent; and upper-level standing.

Logical nature of statistical reasoning. Sets, probability, density functions, random variables and their distributions, estimation and hypothesis testing.

4V96 Special Topics in Psychology I

1 to 4 sem. hrs.

Pre-requisite(s): Consent of instructor.

Course may be repeated once with change in content.

Public Health (PUBH)

3325 Maternal and Infant Health

The purpose of this course is to provide students contextual insight into multilevel influences that shape current maternal and infant health outcomes. Students will improve their understanding of the historical basis for contemporary global and domestic approaches to prenatal care, childbirth, postpartum practices, as well as public policy.

1145 Health and Human Behavior

The intent of this class is to explore a variety of health issues pertinent to the following topics: stress, mental/emotional health, aging, death, human sexuality, chemical use, nutrition, exercise, chronic and degenerative diseases, and infectious diseases. Fee: \$50

2313 Consumer Health

The basic principles involved in purchasing health goods and health services are presented. Topics include advertising, health insurance, selecting health professionals, and the use of health care agencies.

2330 Introduction to Public and Population Health

Pre-requisite(s): Public Health major, minor or consent of instructor.

Introduces students to historical and theoretical foundations of community, public, and population health, social determinants of health and programs designed to address public health issues. The course is designed to cover the seven competency areas of an entry-level health education specialist and the foundational dimensions of public health. Professional preparation including career opportunities, mock interviews, and resume and cover letter writing are also included.

2331 Health Concepts and Competencies

Pre-requisite(s): Public Health major, minor or consent of instructor.
PUBH 2330 or concurrent enrollment.

History, philosophy, and ethics in the practice of health education. Development of skill in the seven areas of responsibility with emphasis on needs assessment, writing goals and objectives, and planning for effective health education programs in school and community settings.

3313 Nutrition

Pre-requisite(s): Upper-level standing.

A study of the fundamental, as well as relevant, current research and issues in nutrition in the United States and the world. Fee: \$50

3314 Environmental Health

A course designed for the study of environmental health hazards such as air, water, solid wastes, noise pollution, radiation, pesticides, food additives, metallic menaces, substandard housing, urban environment, and population dynamics. The role of conservation and governmental agencies concerned with pollution control is included in the course.

3317 Mood-Modifying Substances

Analysis of major mood-modifying substances, including alcohol and tobacco, and also use and misuse of over-the-counter and prescription drugs. Many alternatives to chemical use and methods of effectively working with school-aged children will be addressed.

3320 Stress Management/Mental-Emotional Health

Pre-requisite(s): Upper-level standing.

To introduce students to the topic of stress and its impact on their lives; further, to develop behavioral skills in which to deal healthfully with the impact of a technological society. The second half of the class will devote itself to topics and activities that relate to feelings of positive self-worth and psychosomatic wellness. Fee: \$50

3331 Planning in Public and Community Health

Pre-requisite(s): Public Health major, minor. PUBH 2330 and 2331

Provides in-depth focus on program planning in health education that includes planning models and strategies. Experiential learning through a group writing project serves as the framework for each component of the program plan.

3350 Human Physiology for Allied Health Professionals

Pre-requisite(s): A minimum grade of C in HP 1420.

Survey of the function and interrelationship of body systems with emphasis on the homeostasis of these systems. Fee: \$50

3351 Epidemiology/Vital Statistics

An introductory course for students in health sciences, community/public health and allied health fields. Provides foundational background including historical, key concepts and basic principles. Topics will include historical foundations, organizing epidemiological data, disease factors including agents, hosts, food, foamites and environmental. Case studies will be utilized to understand vital statistics and practice using descriptive and analytical statistical tools. Epidemiological influences of past, current and future health policy will be examined.

4320 Men's Health and Wellness

Pre-requisite(s): Upper-level standing.

Focuses on issues specific to men's overall health and wellness, concepts of multiple masculinities, men's body image and the portrayal of men in media. This course is available to men and women.

4321 Human Sexuality

Pre-requisite(s): Upper-level standing.

A health education course in which basic concepts of human sexuality are analyzed and discussed. The course is designed to help students better understand the influences that affect the complex nature of human interaction and to provide accurate information needed to help develop responsible decision-making skills. Fee: \$50

4323 Professional Field Experiences in Health

Pre-requisite(s): Junior standing, twenty-one semester hours in health education courses and consent of the division director.

Planned experiences in various community agencies including both public and voluntary health organizations.

4327 Dying and Death Education

Pre-requisite(s): Upper-level standing.

A program of death education designed to help people to develop constructive attitudes, values, and practices. Dynamics of later life and the aging process with special emphasis on health will also be included. Fee: \$50

4331 Intervention Design in Health Education

Pre-requisite(s): Public Health major, minor or consent of instructor. PUBH 2331 and 3331.

Theories and methods used to design interventions in health education and health promotion. A special emphasis is focused on health behaviors and life-style changes.

4333 Evaluation in Public and Community Health

Pre-requisite(s): Public Health major, minor. PUBH 2330, 3331 and 4331.

Focuses on process, impact, and outcome evaluation of health education and health promotion programs. Other skills covered include planning designs, data collection, quantitative methods, qualitative methods, data analysis, and data interpretation, and grant writing to fund evaluation efforts.

4340 Global Health (Cross-listed as NUR 4340)

Overviews global health issues and the role of health education and public health worldwide.

4341 Cross-Cultural Health Communication

Overviews cross-cultural communication concepts/strategies used in health education to assess health needs and communicate health information. Designed for field-based international or local culture-specific settings.

4355 Human Diseases

Pre-requisite(s): A minimum grade of C in PUBH 3350.

Basic principles of pathophysiology and mechanism of diseases affecting the human body, including basic principles of epidemiology with emphasis on the causation and effects of disease on human populations.

4V80 Professional Internship in Health 1 to 6 sem. hrs.

Pre-requisite(s): Senior standing, twenty-four semester hours in health education courses and consent of the division director.

Designed to provide students with planned experiences with professionals in various health, allied health and/or community health settings including public, private, and health agencies.

Quantitative Business Analysis (QBA)

2302 Business Data Analysis I

Pre-requisite(s): Cumulative GPA of 3.0 or higher. A minimum grade of C in BUS 1101, BUS 1201, BUS 1305. Open to pre-business majors only.

The application of statistical methods used in business decision-making. Topics include methods for accessing and describing data. An introduction to probability provides a framework for risk analysis. Inferential statistics is covered through confidence interval estimation, hypothesis testing, and correlation and linear regression analysis. Statistical software is presented for producing data summaries and statistical computations.

3305 Introduction to Business Analytics

Pre-requisite(s): Minimum grade of C in QBA 2302. Only open to BBA students.

Designed to aid in understanding what has happened in the past in a firm (descriptive analytics), using past data to predict what is going to happen in the future (predictive analytics), and helping to determine the best course of action to take (prescriptive analytics). Explores how to combine statistical modeling and computer techniques to help make principled decisions in the context of business.

3306 Statistical Models in Business

Pre-requisite(s): A minimum grade of C in QBA 3305.

Emphasizes building computer-based statistical models as aids in business problem solving. Case studies are analyzed using multiple regression, analysis of variance, time series forecasting methods, and survey sampling. Emphasis is placed on current computer-based statistical methods and business applications.

4V98 Special Studies in Quantitative Business Analysis

1 to 6 sem. hrs.

Not open to pre-business students.

Recreation & Leisure Services (RLS)

1202 First Aid (Cross-listed as HP 1202)

See HP 1202 for course information.

1234 Canoeing Instructor Certification

This course is designed to qualify a student as an American Red Cross Canoeing Instructor. Upon completion of the course the student will be able to organize, teach, and issue certification for Red Cross basic canoeing courses. Fee: \$50

1235 Sailing & Canoeing Instructor

Pre-requisite(s): LF 1159.

Qualifies a student as an American Red Cross Instructor for sailing and canoeing. Upon completion of the course the student will be able to organize, teach, and issue certification for Red Cross basic sailing and canoeing courses. Fee: \$50

1396 Introduction to Leisure Services

Introduction to the concepts of leisure and recreation, the components of leisure service systems and the role of recreation in human experience and society. A survey of the historical development of recreation and leisure and its corresponding philosophical and theoretical thought.

2201 Adventure Recreation Leadership and Challenge Course Facilitation

This course is designed to provide students with the knowledge, skills, and practical experience necessary to lead adventure recreation experiences: group initiatives, low challenge courses, and high challenge courses. The course will consist of classroom and laboratory experiences in the Rec Lab and at the Challenge Course at Eastland Lakes.

2202 Climbing Wall Instructor Certification Course

Pre-requisite(s): Must have a Baylor University belay certification prior to the first day of class or have belaying experience. At least one year documented personal climbing experience (a minimum of occasions climbing indoors and/or outdoors.) Prior teaching experience or have observed at least two belay classes at the Baylor Rock Wall are highly recommended. Approval by course instructor required. Climbing ability for AMGA certification: 5.9 top rope and 5.8 for lead certification on artificial structures.

This course is designed for climbers interested in becoming climbing wall instructors. This class will focus on how to teach climbing skills, develop lessons, manage risk, and perform rescues. The focus areas are specific to the AMGA Climbing Wall Instructor Course but are similar skill sets required for outdoor leaders in many settings. The course will emphasize educational theories, lesson plan development, and giving/receiving feedback.

2301 Camp Counseling and Administration

This course will deal with the administration and organization of resident and day camps. It will also cover the responsibilities of the different camp leadership (counselor, nurse, cook, etc.).

2388 Leisure and Lifestyle Well-Being

Develop the knowledge and skill to develop programs and services to educate the public for leisure and to improve student's personal health through lifestyle decision-making. To understand the role of leisure in the American lifestyle and to assist the American public to develop a more enjoyable life (experience quality of life) through leisure education, skills, leadership strategies and resources. Lab experience required.

2389 Leadership and Facilitation in Leisure Services

Facilitate development of leisure lifestyle and use of leisure resources, and the ability to use leadership techniques to organize and conduct leisure programs and services. Acquire a knowledge of the role and content of leisure programs and services. This is accomplished through such as indoor/outdoor games, mixers, table games, skits/stunts, songs, stories, hobbies/crafts, and planning socials/picnics/retreats.

2395 Foundations of Therapeutic Recreation

Psychological, sociological, physiological, historical significance of therapeutic recreation, philosophy, theories, practices of health and human service professionals, and functioning needs and implications of therapeutic recreation with persons with disabilities with experiential opportunity.

3301 Theory and Practice of Outdoor Adventure Programs

Pre-requisite(s): RLS major or upper-level standing.

Outdoor Adventure experiences are a desired programming element offered in comprehensive leisure service agencies and may also be the primary or sole focus of an agency. This course is designed to introduce students to the philosophical and theoretical foundations of outdoor adventure programming. The course will also explore the many core competency areas required of outdoor adventure administrators that occur in the field, managerial, educational and leadership realms. Through classroom and field experiences, students will be able to increase knowledge related to the career path for the professional, implications/benefits for the participant and programming considerations of outdoor adventure experiences. Weather and schedule permitting, the course will expose students to a variety of institutional, front country type outdoor adventure experiences including caving, biking, rock climbing, backpacking, camping and rappelling. All equipment furnished except bicycle. Two week-end trips, one Saturday, and three evenings required. (Lab fee required.) Fee: \$50

3302 Program Planning in Leisure Services

Pre-requisite(s): RLS major or upper-level standing.

Students will become aware of programming content and process including assessment, planning, implementation and evaluation of services. Students will develop an awareness of professional practices/principles, resources, promotion and marketing, and computer applications.

3303 Outdoor Adventure Certifications

Designed to help students acquire foundational knowledge of outdoor leadership and receive certifications in three areas covering Wilderness Medicine, Leave No Trace: Outdoor Ethics, and Wilderness Education Associates: National Standard Protocol. All equipment furnished. One weekend trip required. Fee: \$50

3382 Risk Management in HHPR (Cross-listed as HP 3382)

See HP 3382 for course information.

3396 Field Laboratory in Leisure Services

Pre-requisite(s): A minimum grade of C in RLS 1396, 2388, 2389, and 3302.

Field experience in selected leisure service delivery settings with supervision by qualified professional. Documentation of 200 clock hours during semester. (Graded)

4301 Outdoor Education

Pre-requisite(s): RLS major or upper-level standing.

This course will deal with ways to use the outdoors to facilitate and enrich learning related to the school curriculum. It will also deal with ways to enjoy and protect our natural environment. Some of the skills involved are the use of nature games, compass and map games, conservation projects, natural crafts, field investigations, trail building, and teaching various classroom subjects in an outdoor setting.

4331 Meanings, Culture, and Philosophy of American Landscapes

A critical approach to understanding the meanings, culture, and philosophies Americans ascribe to natural landscapes. Traditional perspectives including colonial American, romantic, and science-based conservation are characterized, as well as revisionist themes aligned with gender, cultural pluralism, and societal meanings of natural resource based protected areas. Fee: \$50

4390 Independent Study in Recreation

Pre-requisite(s): For majors only.

Additional in-depth study in a particular area under the supervision of a faculty member.

4391 Leisure Service Management

Develop understanding of management as applied to leisure systems. Content includes organizational theories/behavior, personnel and fiscal management, legal and legislative concepts, and computer use in the management functions.

4392 Professional Issues and Practices in Leisure Services

Pre-requisite(s): A minimum grade of C in RLS 1396, 2388, 2389, 3302, and 3396.

Examination and application of research and evaluation models and methodologies to planning and delivering programs. Computer applications with statistical analysis of data to evaluate actual programs. Students study current professional issues, trends, organizations, and professionalism. Students prepare for internship, develop professional resources, and practice articulating professional philosophies.

4393 Facilities and Equipment in HHPR (Cross-listed as HP 4393)

See HP 4393 for course information.

4395 Principles of Church Recreation

History, philosophy, objectives, and administration of recreation in the church and how it relates to the total ministry of the church. It will include an overview of various areas of church recreation and an investigation of leisure and its value in a church setting.

4396 Considerations for Diverse Populations in Leisure Programming

Pre-requisite(s): RLS major or upper-level standing.

In-depth investigation into the nature and implications of social class, ethnicity and race, gender, age, illness and disability upon individuals and their leisure/recreation patterns and leisure service delivery, with consideration of societal attitudes, role of leisure professionals, relevant legislation, programming opportunities, and resources for service delivery. Field experience required.

4V13 Recreation & Leisure Services Field School 3 to 9 sem. hrs.

Short-term educational travel to a selected area(s) to observe and analyze social, economic, and environmental systems relative to natural resource management and outdoor recreation environments and to develop leadership and technical skills necessary to manage both environments and people associated with recreation programming. Methodologies may include ethnography, service and/or experiential learning, and application of the scientific method.

4V94 Internship in Leisure Services 3 to 9 sem. hrs.

Pre-requisite(s): 2.25 overall GPA and 2.5 GPA in major and completed all major courses in RLS.

Full-time work placement internship with a leisure service agency involving application of major courses in day-to-day operations and a project mutually agreed upon by the instructor and agency. (Graded)

Religion (REL)

Introductory Religion Courses (REL)

1310 The Christian Scriptures

An introduction to the Old and New Testaments (their contents, historical backgrounds, and major themes), and to appropriate strategies for interpretation of the Bible.

1350 The Christian Heritage

Pre-requisite(s): REL 1310.

An introduction to Christian life and thought, from the early church to the present, through an examination of great texts with an emphasis on Christian doctrine, ethics, witness and institutions.

Biblical Studies (REL)

3301 Psalms and Wisdom Literature

Pre-requisite(s): REL 1310 and 1350.

A study of the worship and wisdom literature of the Old Testament: the books of Psalms, Proverbs, Job, and Ecclesiastes.

3303 Archaeology and the Bible (Cross-listed as ARC 3303)

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

An introduction to Biblical archaeology with emphasis on the archaeological discoveries which relate significantly to the understanding and interpretation of the Bible.

3304 Prophets

Pre-requisite(s): REL 1310 and 1350.

A study of Old Testament prophecy emphasizing the prophetic books—their origins, times, and messages.

3305 Interpreting the Old Testament

Pre-requisite(s): REL 1310 and 1350.

Analysis of the literature of the Old Testament, examining various methods used in Old Testament study. Attention will be given to relevant bibliography, leading scholars, and major issues in current Old Testament study.

3307 Former Prophets

Pre-requisite(s): REL 1310 and REL 1350.

The Former Prophets (Joshua, Judges, 1 and 2 Samuel, and 1 and 2 Kings) as narrative, with attention to relevant historical, theological and literary issues.

3308 The Literature of the Pentateuch: Narrative, Poetry, Genealogy, and Law

Pre-requisite(s): REL 1310 and 1350.

The first five books of the Old Testament with attention to the Pentateuch's distinct literary forms, their historical and cultural contexts, and the intersecting visions of reality these texts offer.

3311 Jesus and the Gospels

Pre-requisite(s): REL 1310 and 1350.

A study of the portrayal of Jesus in the New Testament Gospels and an introduction to the question of "the historical Jesus."

3312 The Johannine Literature

Pre-requisite(s): REL 1310 and 1350.

A study of the Johannine Literature with special attention to the historical setting, literary design, theological themes, and interpretations of the Gospel and Epistles of John.

3314 Paul and His Writings

Pre-requisite(s): REL 1310 and 1350.

A study of the life and letters of the apostle Paul.

3315 The General Epistles

Pre-requisite(s): REL 1310 and 1350.

A study of Hebrews, James, 1 and 2 Peter, Jude, and 1, 2, and 3 John.

3319 Interpreting the New Testament

Pre-requisite(s): REL 1310 and 1350.

Analysis of literature of the New Testament, examining various methodologies, both historical and contemporary, in New Testament study. Attention will be given to relevant bibliography, leading scholars, and major issues in current New Testament study.

3V00 Biblical Heritage and Contemporary Society in the Holy Land

(Cross-listed as MES 3V00)

1 to 3 sem. hrs.

Pre-requisite(s): REL 1310 and 1350.

A tour and intensive study of the Holy Land, focusing on geography, biblical heritage, and how that heritage influences contemporary Jewish/Palestinian issues. May not be repeated.

4302 Archaeology and the Ancient Near East (Cross-listed as ARC 4302)

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

Ancient Near East, its history, culture, and religion as evidenced through archaeological excavation and the interpretation of archaeological data. The focus of the course will be upon the Biblical period.

4305 Topics in Old Testament Studies

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

A designated book, group of books, or major theme from the Old Testament. The course may be taken up to three times when content differs.

4315 Topics in New Testament Studies

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

A designated book, group of books, or major theme from the New Testament. The course may be taken up to three times when content differs.

4V06 Palestinian Archaeology

1 to 6 sem. hrs.

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

Archaeology of Palestine through readings, lectures, travel to excavated sites in Palestine, and participation in excavation at a selected site of major importance in Palestine. May be repeated once for credit.

Biblical & Related Languages (REL)**3309 Advanced Biblical Hebrew I**

Pre-requisite(s): HEB 1302 or its equivalent.

Selected readings in narrative prose of the Hebrew Bible with attention to advanced grammar and syntax.

3310 Advanced Biblical Hebrew II

Pre-requisite(s): HEB 2310 or REL 3309 or equivalent.

Selected readings in poetic texts of the Hebrew Bible with attention to advanced grammar and syntax.

3320 Advanced Classical and Biblical Greek I

Pre-requisite(s): GKC 1302 or its equivalent.

Selected readings from Plato and the Gospels with attention to advanced syntax and to the interpretive relationship between Classical and New Testament texts.

3321 Advanced Classical and Biblical Greek II

Pre-requisite(s): GKC 2320 or its equivalent.

Readings in Homer's Odyssey with continued emphasis on Greek syntax and the interpretive relationship between Classical and New Testament texts.

4303 Aramaic (Cross-listed as ARA 4303)

See ARA 4303 for course information.

4304 Syriac (Cross-listed as SYR 4304)

Pre-requisite(s): REL 1310, 1350 and Upper-level standing.

Introduction to ancient Syriac with selected readings from Syriac manuscripts of biblical books as well as early Christian literature.

4316 Readings in the Greek New Testament and Early Christian Literature

Pre-requisite(s): GKC 2310 and 2320 or REL 3320 and 3321.

Language and literature of the New Testament and other early Christian writings including sample texts from a variety of early Christian genres (epistles, narratives, apocalyptic, etc.).

Historical Studies (REL)

3330 Introduction to Church History

Pre-requisite(s): REL 1310 and 1350.

A survey of church history from New Testament times to the present.

3331 Topics in Historical Studies

Pre-requisite(s): REL 1310 and 1350.

Major themes or movements in church history. The course may be repeated once with a different topic.

3333 History of Roman Catholicism

Pre-requisite(s): REL 1310 and 1350.

Historical and theological developments of Roman Catholicism from the patristic period to the present. Special attention will be directed toward individuals, movements, and councils.

3338 Women in Christian History

Pre-requisite(s): REL 1310 and 1350.

A survey of the role of women in Christian history from the early church to the present.

3339 Law and Religion in the United States (Cross-listed as PHI 3339 and PSC 3339)

See PHI 3339 for course information.

3340 Religion and Society (Cross-listed as SOC 3309)

See SOC 3309 for course information.

3344 New Religious Movements in the United States

Pre-requisite(s): REL 1310 and 1350.

The origin, development, and teachings of various New Religious Movements from a sociological, theological, phenomenological, and historical perspective.

3348 Hitler and the Holocaust (Cross-listed as HIS 3308)

See HIS 3308 for course information.

4333 History of Protestantism

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

History of Protestant Christianity from the precursors of Martin Luther to the present with emphasis upon the sixteenth-century Reformation, the various confessional traditions and major theological issues, the major developments affecting modern Protestantism, and the present state and future of Protestantism. The study will focus on Europe and North America.

4335 Baptist Life and Thought

Pre-requisite(s): REL 1310, 1350 and upper-level standing.

Baptist history and thought to the present, including the outreach of Baptist missions. The development of basic doctrine and polity within their historical settings, with special attention to biographies of important Baptist men and women.

4336 Introduction to Religion in America

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

American religious heritage with emphasis on its organization, expansion, thought, worship, and impact on American society.

4337 The European Reformation

Pre-requisite(s): REL 1310 and 1350.

The theology and historical context of the Magisterial, Radical, and Catholic sixteenth-century European Reformation.

4338 Women in Religion in America

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

The role of women in religion in America from colonial times to the present.

4340 Christian Missions

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

Biblical basis for missions, the expansion of Christianity, the encounter with non-Christian traditions, and contemporary rationales for Christian missions.

Practical Studies (REL)

2480 Introduction to Ministry

Pre-requisite(s): REL 1310, 1350 and sophomore standing or above.

The church and its ministry, including leadership, and functions of ministry, with a special attention to the history, heritage, distinctive characteristics, and cooperative efforts of Baptists. Includes an internship under the supervision of an area minister. Fee: \$50

3381 Communication in Ministry

Pre-requisite(s): REL 1310 and 1350.

A study and practice of effective communication in ministry.

3382 Cross-Cultural Ministry

Pre-requisite(s): REL 1310 and REL 1350.

Issues related to cross-cultural ministry and contemporary approaches for Christian missions.

4374 Leadership in Ministry

Pre-requisite(s): REL 1310, 1350 and upper-level standing.

The principles and models of effective leadership in ministry.

Research (REL)

3V02 Undergraduate Research/Experiential Learning 1 to 3 sem. hrs.

Pre-requisite(s): REL 1310 and REL 1350.

Supervised undergraduate research or experiential learning in the field of religion. The course may be repeated for up to three semester hours of credit.

4300 Special Topics in Religion

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

Special topics of study in the discipline of religion, especially in areas not covered in the regular curriculum. The course may be repeated once when content differs.

4399 Senior Seminar

Pre-requisite(s): Senior standing.

A senior level course required of all students majoring in religion. The seminar provides opportunity for reflection on the various disciplines and their interconnectedness in religious studies through assigned reading and directed research.

Theological Studies (REL)

3351 Introduction to Christian Theology

Pre-requisite(s): REL 1310 and 1350.

Central doctrines of the Christian faith: revelation, the person and work of Jesus Christ, the Holy Spirit election, man, sin, Holy Scripture, and reconciliation. Classical and contemporary theological formulations will be used as illustrative material.

3352 Monks, Martyrs and Heretics in Early Christianity

Pre-requisite(s): REL 1310 and 1350.

The emergence of doctrines and identity in earliest Christianity.

3353 Persecution and Martyrdom of Christians in Antiquity and Today

Pre-requisite(s): REL 1310 and REL 1350.

Christian persecution and martyrdom with focus on earliest Christianity and the modern era.

3370 Religion and Literature (Cross-listed as ENG 3370)

See ENG 3370 for course information.

3390 Christian Ethics

Pre-requisite(s): REL 1310 and 1350.

Introduction to Christian Ethics through texts from Christian thinkers. By examining primary sources and varied approaches to Christian ethical reflection, students develop critical assessments of contemporary moral issues including family life, economic systems, and violence and war.

3394 War and Peace in the Christian Tradition

Pre-requisite(s): REL 1310 and 1350.

An examination of relevant Biblical materials and their interpretation and application throughout Christian history. An analysis of three major historical positions; pacifism, just war, and crusade, and an examination of contemporary expressions in scholarship, public policy, and popular thought.

3396 Christianity and Films

Pre-requisite(s): REL 1310 and 1350.

Film viewing and critiquing of films from an ethical-theological perspective. This course will not be accepted for credit toward the six-hour religion requirement by the university.

3397 Gender, Feminism and Theology

Pre-requisite(s): REL 1310 and 1350.

Christian theology through the lenses of gender and feminism, including questions, critiques, and arguments of feminist theologians.

4350 Augustine's Theological Development (Cross-listed as CLA 4350)

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

Selected writings of Augustine that focus on such themes as the problem of evil, scriptural hermeneutics, his theological anthropology, and his Trinitarian theology.

4355 Salvation

Pre-requisite(s): REL 1310 and 1350.

Development of the doctrine of Salvation through the centuries, including theories of atonement, models of salvation, and how they function in the contemporary church.

4388 Christian Literary Classics (Cross-listed as ENG 4388)

Pre-requisite(s): REL 1310 and 1350; and upper level standing.

A study of the various ways in which theological and imaginative excellence is displayed in such classic Christian authors as Augustine, Dante, Herbert, Bunyan, and Hopkins.

4390 Contemporary Christian Ethics Theory

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

Designated theme, issue, or person in contemporary Christian ethical theory. The course may be taken up to three times when content differs.

4393 Environmental Ethics (Cross-listed as ENV 4393)

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

Moral perspectives which inform and support environmental activity in our society. The primary focus will be on the various interpretations of how humanity is properly related to its environment and the consequences of these interpretations for the environmental action of individuals and social institutions.

4395 Bioethics

Pre-requisite(s): REL 1310 and 1350 or BIC 3358; and upper level-standing.

Ethical issues in the fields of health care and other life sciences. Some of the issues studied include behavior modification, abortion, euthanasia, health care delivery, human experimentation, and genetic modification. A major research project on a selected issue approved by the professor will be required of each student.

4396 Religion and Sport (Cross-listed as HP 4396)

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

This course explores the relationship between religion and sport, focusing on the issues of the sacred (persons, objects, time, space, communities), myth, theology, ritual, and experience. This course will not be accepted for credit toward a major or minor in religion or toward the six-hour religion requirement by the University.

4397 Race, Racism, and Religion in America

Pre-requisite(s): REL 1310, REL 1350; and upper-level standing.

Survey of dominant theological perspectives on race and histories of racism in American Christianity, as well as religious resources for racial reconciliation.

4398 Sports-Related Ethics (Cross-listed as HP 4398)

See HP 4398 for course information.

World Religions (REL)

3345 World Religions (Cross-listed as AST 3345)

Pre-requisite(s): REL 1310 and 1350 or BIC 3358.

Historical, aesthetic, philosophical, anthropological, sociological, and psychological approaches to the major faith traditions of our world.

4342 Christianity and the World Religions

Pre-requisite(s): REL 1310 and 1350.

The exchange and encounter between Christianity and the major world religions. Focus on religious worldviews, major events, religious and political trends, the history of missions, and a post-colonial critique of religious pluralism.

4343 Topics in Islam

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

The tenets, doctrines, and sects of Islam, including the religious underpinnings of Islamic society. Field trip required. The course may be repeated once with a different topic.

4346 Topics in Asian Religions (Cross-listed as AST 4346)

Pre-requisite(s): REL 1310 and 1350; and upper-level standing.

The basic history, beliefs and practices of religions in Asia. Course may highlight a specific religious tradition. The course may be repeated once with different topic.

4347 Topics in African Religions

Pre-requisite(s): REL 1310 and 1350.

History of religious expression in Africa plus contemporary changes as African religious traditions interact. With content changed, this course may be repeated once for a maximum of 6 semester hours.

4348 Modern Judaism

Pre-requisite(s): REL 1310, 1350 and upper-level standing.

Trends in 20th Century in Jewish thought, including Zionism, post-Holocaust thought, movements of Jewish renewal, and ecumenical relations.

4349 The World's Religions and Violence

Pre-requisite(s): REL 1310 and 1350.

Modern violence (particularly war, atrocity, and genocide) and how the religious traditions of Judaism, Christianity, Islam, Hinduism, Buddhism, Shinto, Sikhism, Jainism, and Zoroastrianism understand, challenge, and participate in it.

Russian (RUS)**1401 Elementary Russian**

Introduction to the Russian language and culture: Pronunciation, grammar, reading of simple texts, and conversation. Fee: \$50

1402 Elementary Russian

Pre-requisite(s): RUS 1401 or two units of high school Russian.

Continuation of RUS 1401. Fee: \$50

2310 Intermediate Russian

Pre-requisite(s): RUS 1402 or three units of high school Russian.

Conversation, composition, cultural readings, and grammar review. Fee: \$50

2320 Intermediate Russian

Pre-requisite(s): RUS 2310 or four units of high school Russian.
Continuation of RUS 2310. Fee: \$50

3301 Russian Conversation and Composition

Pre-requisite(s): Fourteen semester hours of Russian or consent of instructor.

Further development of communication skills. Required of all Russian majors.

3302 Russian Reading Development

Pre-requisite(s): Fourteen semester hours of Russian or consent of instructor.

Development of Russian reading skills through grammar review and reading of selections from various areas of the arts and sciences.

3310 Russian phonetics and phonology

Pre-requisite(s): RUS 2320 or consent of instructor.

Analysis of Russian phonology and spelling; practice in Russian pronunciation and intonation.

3352 Modern Russian Short Story

Pre-requisite(s): Fourteen semester hours of Russian.

Emphasis on Russian short prose fiction of the twentieth century.

3353 Russian Drama

Pre-requisite(s): Fourteen semester hours of Russian.

Emphasis on the drama of the nineteenth and twentieth centuries.

3380 Russian Literature in Translation I

Does not count toward foreign language requirement. Survey of Russian poetry and prose from its beginning to the Revolution with emphasis on Pushkin, Gogol, Dostoevsky, Tolstoy, and Chekhov.

3381 Russian Literature in Translation II

Does not count toward foreign language requirement. Survey of Russian poetry and prose from the Revolution to the present with emphasis on Mayakowsky, Pasternak, Bulgakov, and Solzhenitsyn.

3V70 Special Problems

1 to 3 sem. hrs.

Pre-requisite(s): Consent of division director.

With content changed, this course may be repeated once for credit. 1-0

4301 Survey of Russian Literature

Pre-requisite(s): Seventeen semester hours of Russian including RUS 3301 or consent of instructor.

Russian literature from its beginnings to the Revolution.

4302 Survey of Russian Literature, continued

Pre-requisite(s): Seventeen semester hours of Russian including RUS 3301 or consent of instructor.

Survey of Russian literature from the Revolution to the present.

4V90 Independent Study**1 to 3 sem. hrs.**

Pre-requisite(s): Consent of division director.

Independent study in Russian language and literature in consultation with a professor. Examination and term paper. With content changed, this course may be repeated once for credit.

Sanskrit (SAN)**1301 Elementary Sanskrit**

Introduction to the basic elements of Classical Sanskrit: the devanagari script, grammar, and syntax.

1302 Elementary Sanskrit

Pre-requisite(s): SAN 1301.

Continuation of SAN 1301; Continuation of Classical Sanskrit grammar and syntax; selected readings from the Bhagavad-Gita and the Ramayana.

Science Research Fellows (SRF)**1306 Research Techniques I**

Pre-requisite(s): Science Research Fellows major.

The scientific process and common techniques and instrumentation used in biology, neuroscience and psychology research labs, including scientific literacy, data analysis and interpretation, and the breadth of scientific exploration.

1307 Research Techniques II

Pre-requisite(s): Science Research Fellows major.

Techniques and instrumentation for chemistry and biochemistry research labs; toxicology as it applies to all science disciplines.

3V90 Research Problems in Science**1 to 4 sem. hrs.**

Pre-requisite(s): SRF 1307 and Science Research Fellows major.

Research project conducted under the supervision of a science research faculty member. Techniques and overall goals of the research group, including the details of a particular research project. This course may be repeated for a maximum of 8 total hours if research continues.

4101 Senior Research Seminar I

Pre-requisite(s): Upper-level standing and Science Research Fellows major.

Lab work and data analysis in preparation for presentation and possible publication, supervised by a faculty member.

4102 Senior Research Seminar II

Pre-requisite(s): Upper-level standing and Science Research Fellows major.

Presentation of research in a formal oral presentation to faculty and SRF peers, supervised by a faculty member.

4V90 Senior Research Problems 1 to 4 sem. hrs.

Pre-requisite(s): SRF 3V90 and Science Research Fellows major.

Independent research project as determined by the faculty research advisor. Students will collect enough scientific data for publication. This course may be repeated for a maximum of 12 total hours if research continues.

Slavic & East European Studies (SEES)

2380 Introduction to Slavic and East European Studies I (Cross-listed as HIS 2380)

Basic introduction to the peoples, history, and cultures of the countries covered by Slavic and East European Studies, including the post-Communist states of Central and Eastern Europe, the former Soviet Republics, and the former Federated Yugoslavia up to the mid-1700's.

2381 Introduction to Slavic and East European Studies (Cross-listed as HIS 2381)

Major events and factors -- e.g., political, economic, and social -- leading to upheaval and change in the area countries from the mid-1760's to the present, with attention to the Bolshevik Revolution in Russia, Stalinism, the creation of the Soviet Empire, the collapse of communism in Central and Eastern Europe, and the transition of post-communist states.

2V70 Independent Study 1 to 3 sem. hrs.

Pre-requisite(s): Consent of director.

Supervised individual research in Slavic Studies consultation with a professor. Examination and term paper. With content changed, course may be repeated once for credit.

3V70 Advanced Independent Study 1 to 3 sem. hrs.

Pre-requisite(s): Consent of director.

Independent research in Slavic Studies in consultation with a professor. Examination and term paper. With content changed, course may be repeated once for credit.

4363 Traditional Music and Culture in Europe (Cross-listed as MUS 4363)

See MUS 4363 for course information.

4379 The Cold War (Cross-listed as HIS 4379)

See HIS 4379 for course information.

4V90 Independent Readings 1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor and graduate director of student's home department; upper-level standing.

This course is designed for advanced undergraduates and graduate students. Directed readings on a topic selected by the student in consultation with the graduate director of the student's home department and the director of SEES. Maximum of 6 credit hours.

Social Innovation Collaborative (SIC)

4V98 Special Topics in Social Innovation 1 to 4 sem. hrs.

Study of advanced topics in social innovation, with attention to a particular "wicked" problem. This course may be repeated twice when topics differ, not to exceed nine semester hours.

Social Work (SWO)

1101 Social Justice and New Beginnings at Baylor

New student experience course designed to help students acclimate to college life with a specific focus on vocational calling and social justice as defined within the social work profession.

2320 Human Diversity and Leadership

This course creates opportunities to increase understanding of diversity and difference, power and privilege, and oppression—as well as an understanding of one's self. Students will look at diversities within religion, ability, age, sexual orientation in addition to race/ethnicity, class, gender. This is an essential foundation for culturally competent leadership in any professional or volunteer setting.

2321 Introduction to Social Work

An introduction to the profession of social work and the institution of social welfare. Emphasis is on common human needs and problems, and the development and functioning of social welfare as an institution of society. Course content includes history, knowledge base, values, and skills of professional social work as well as contexts for practice and career opportunities.

3305 Introduction to Gerontology (Cross-listed as GRT 3305 and SOC 3305)

See SOC 3305 for course information.

3351 Human Behavior and the Social Environment I

Human development across the life course with emphasis on the effects of the social and physical environment on maturation. Special attention given to gender issues, experiences of racial and ethnic minorities, and other special populations.

3352 Human Behavior and the Social Environment II

Pre-requisite(s): SWO 2320.

The environmental contexts for human behavior with a special emphasis on groups, organizations and communities. Issues of human diversity, social and economic justice, and environments of populations at risk are emphasized.

3371 Social Work Practice I: Generalist Practice

Pre-requisite(s): SWO 2321 and credit or concurrent enrollment in 3351, and admission to Social Work program.

The Generalist Model of social work practice, including theoretical frameworks, problem-solving method, values and ethics, and practice with special populations. Thirty hours of service-learning work required.

4301 Social Work Research

Pre-requisite(s): SWO 4305 and credit or concurrent enrollment in SWO 4293, 4322, and 4492.

The basic purpose, methods and techniques of social research, evaluation of professional social work practice, and social program evaluation.

4305 Data Analysis for Social Work

Pre-requisite(s): MTH 1301 or 1320 or 1321 or STA 1380.

Apply basic statistical tools to describe, analyze, and evaluate research issues in professional social work practice. Fee: \$50

4315 Foundations for Social Justice

Examines theories and practices of social justice as related to oppressed groups in a multicultural society utilizing religious and nonreligious perspectives. Addresses issues of power, inequality, and privilege, and the diverse experiences of oppressed groups in framing strategies to promote social justice.

4316 Trauma, Loss, and Mourning

Pre-requisite(s): Upper-level standing or graduate student.

Specialized knowledge and skills for loss and grief and therapeutic interventions for the bereaved, including bereaved children. Preparation for work with loss of relationship and health across the lifespan. Emphasis on religious faith and grief, and the response of faith communities and religiously affiliated providers to suicide, divorce, loss of parental rights, and other disenfranchised grief.

4317 Human Trafficking

Pre-requisite(s): Upper-level standing or graduate student.

This course is designed to help students gain a better understanding of contemporary human trafficking and modern-day slavery. The roles that entities such as government, the media, faith-based organizations, organized crime, and culture play in this complex human rights and social (in)justice issue will also be explored.

4322 Social Policy for Social Work Practice

Pre-requisite(s): SWO 4491, 4373 and 4305. Credit or concurrent enrollment in 4293, 4301, and 4492. Non-majors must have consent of instructor.

Historical and current patterns of provision of social welfare services, the effect of social policy on people gaining optimal health and well-being, and the effect of social policy on social work practice.

4372 Social Work Practice II: Generalist Practice with Groups

Pre-requisite(s): SWO 3351 and minimum grade of B in 3371, and credit or concurrent enrollment in SWO 3352 and 4373.

Knowledge and skills appropriate to social work intervention with small treatment and task groups representing different backgrounds, building on the skills learned in SWO 3371 with individuals and families.

4373 Social Work Practice III: Generalist Practice with Organizations and Communities

Pre-requisite(s): SWO 3351 and minimum grade of B in 3371, and credit or concurrent enrollment in SWO 3352 and 4372.

Knowledge, skills and strategies appropriate to work with organizations, neighborhoods, and communities to foster social and economic justice.

4393 Sociology of Aging (Cross-listed as GRT 4393 and SOC 4393)

Pre-requisite(s): Upper-level standing.

Impact of aging upon individuals and society, as well as the reactions of individuals and society to aging. Social gerontology is the principal focus of attention of the course.

4395 Aging and Mental Health (Cross-listed as GRT 4395 and SOC 4395)

Pre-requisite(s): Upper-level standing.

Mental health needs and related problems of aging individuals with considerable discussion of approved mental health treatments for such persons.

4401 Statistics for Social Workers

Pre-requisite(s): MTH 1301 or 1320 or 1321 or STA 1380.

Apply basic statistical tools to describe, analyze, and evaluate research issues in professional social work practice. Fee: \$50

4491 Social Work Internship I

Pre-requisite(s): A minimum grade of B in SWO 4372 and 4373 and admission to field program and consent of Director or Associate Director of Field Education - Generalist Practice.

First semester of Field internship requiring 240 hours of Social Work practice with supervision by a professional social worker within a local setting and a weekly integrative seminar. Requires integration of liberal arts background and social work knowledge, skills, values, and ethics within the structure of the agency, demonstrating beginning competence around each of the program's educational objectives and competencies. Fee: \$50

4492 Social Work Internship II

Pre-requisite(s): A minimum grade of B in SWO 4491 and credit or concurrent enrollment in SWO 4301 and SWO 4322.

Second semester of Field internship requiring integration of liberal arts background and Social Work knowledge, skills, values, and ethics through two hundred forty hours of supervised practice in a community agency and a weekly integrative seminar. Student must demonstrate competence around each of the program's educational objectives and competencies. Fee: \$50

4V70 Special Topics in Social Work 1 to 3 sem. hrs.

Pre-requisite(s): Consent of instructor.

Course for students who wish to study an area of social work not covered by a formal course. May be repeated for up to a total of six hours credit when the subject matter varies.

4V80 Special Topics 1 to 3 sem. hrs.

Pre-requisite(s): Upper-level standing or graduate student.

Provides instruction in areas of social work knowledge, values, and/or skills that are not available in the standard social work baccalaureate or graduate curricula. Course may be repeated up to six times with different topic of study, not to exceed a maximum of six semester hours.

Sociology (SOC)

1305 Introduction to Sociology

An introductory survey course including basic concepts in the field of sociology, the relationship of the individual to culture, groups, and major social institutions. Particular attention is given to an examination of contemporary social issues through a sociological lens.

1306 Social Problems

An analysis of current social problems with emphasis on sociological aspects of problems in education, family life, religion, and other social institutions.

2310 Introduction to Gender Studies

The impact of gender in the social world, emphasizing social and cultural forces, as well as the impact of biological factors shaping gender.

3305 Introduction to Gerontology (Cross-listed as GRT 3305 and SWO 3305)

An examination of aging in relation to sociology, psychology, biology, law, political science, literature, religion, recreation, and health. Special emphasis is placed on seeking ways to improve the quality of life for persons over thirty-five.

3309 Religion and Society (Cross-listed as REL 3340)

Historical and contemporary issues concerning the complex relationship of religion and society; and religion's propensity to alternately legitimate the status quo and promote social change.

3311 The Sociology of Race and Ethnicity

Dynamics of race and ethnicity and their interrelationship in society.

3318 Mexican-Americans in U.S. Society

Race relations theories are applied in the analysis of Mexican-American history, education, acculturation economics, identification, politics, and strategies for social change.

3322 City and Community

Relationship of social structure, inequality, and social patterns to human settlement in urban and rural areas.

3330 Women in American Society

Pre-requisite(s): SOC 1305 or 1306 or consent of instructor.

An examination of the sociological meaning of women's roles in comparison with men's roles in our society, along with social forces that mold the lives of women. The women's movement and changes in the legal, economic, social, educational, and political arenas as they affect women are investigated. The status of women in the context of contemporary society is explored.

3354 Marriage and the Family

Contemporary family life styles are presented from a sociopsychological viewpoint with stress on personal awareness, growth, and satisfaction in interpersonal relations. Topics include dating, mate selection, communication, sexual adjustment, parenting, cohesion and adaptability, and divorce.

**3355 Introduction to the Economics of Poverty and Discrimination
(Cross-listed as ECO 3355)**

See ECO 3355 for course information.

3360 Juvenile Delinquency

A study of delinquency in a changing society, with emphasis on social causes and methods of control.

3365 Population Geography

Pre-requisite(s): Upper-level standing; or consent of instructor.

Population patterns, emphasizing fertility, mortality, and migrations in various regions.

3372 Population Health

Analysis and evaluation of socioeconomic status, gender, race, ethnicity, and age as major determinants of individual differences in health and well-being in the United States.

3402 Social Statistics (Cross-listed as ANT 3402)

Pre-requisite(s): SOC 1305, ANT 2304 or ANT 2305; or consent of instructor.

An introduction to descriptive and inferential statistics for social science majors. Development of skills in research data analysis. (3-3)
Fee: \$100

4303 Applied Sociology

Pre-requisite(s): SOC 1305, 3402 and consent of instructor.

Field experience in applied social research: theory construction, population and sample identification, data collection, statistical analysis, and research report presentation.

4309 Social Psychology

Causes and the effects of human interaction. The importance of others in determining one's perception, attitudes, motivation, pattern of communication, and behavior-such as altruism, affiliation, aggression, conformity, and achievement is examined.

4310 Death and Dying

Significant issues in the rapidly growing field of death awareness. Specifically, the interactions between the dying individual, family, friends, and professionals are analyzed in terms of process. Major emphasis is placed on the social aspects of dying and the different settings in which deaths occur.

4311 Sociology of Sport (Cross-listed as HP 4372)

See HP 4372 for course information.

4315 Sociology of Education

Structure and functioning of the social organization of the school in light of the goals to be achieved. The interrelationships of education with other institutions will be examined. Consideration will also be given to social psychological processes as they operate in the school setting.

4320 Culture, Personality and Identity (Cross-listed as ANT 4320)

See ANT 4320 for course information.

4322 Social Inequality

Relational processes in society that limit or harm a group's social status, social class, and social circle.

4325 Sociology of Religion

Ways in which religion influences society, culture, and personality and, conversely, how the latter affect religion.

4331 Social Demography (Cross-listed as ENV 4331)

Statistical study of human populations, including human population, size, growth, density, and distribution.

4335 Sociology of Law

Pre-requisite(s): Upper-level standing.

A sociological examination of the role of law in society with an emphasis on the relationship between law and other social institutions and how our legal system attempts to solve particular social problems.

4340 Ethnicity and Aging (Cross-listed as GRT 4340 and SWO 4340)

See SWO 4340 for course information.

4352 Criminology

Crime, criminals, and the correctional system in America. Emphasis is given to the effects of crime on the social order.

4353 Sociology of Medicine

Pre-requisite(s): Upper-level standing; or consent of instructor.

A sociological examination of health, illness, and the social organization of medical care in the United States. Consideration is given to race, class, gender, and age as factors influencing health, illness, and the delivery of medical care.

4355 Economics of Poverty and Discrimination (Cross-listed as ECO 4355)

See ECO 4355 for course information.

4357 Health Inequalities in America

Pre-requisite(s): SOC 1305 and upper-level standing, or consent of instructor

This course is designed to inform students about the ever-changing distribution of health across race/ethnicity, gender, age, region, and other demographic indicators.

4366 Social Movements

Contemporary social change as an outcome of the economic, political, and social processes involved in the development of post-industrial society.

4381 Methods of Social Research

Pre-requisite(s): SOC 1305, 3402; and three semester hours of mathematics.

Basic methods and techniques used in social research.

4391 Social Theory

Pre-requisite(s): Senior status and nine semester hours in sociology including SOC 1305 and 3402.

Social theory from its origins in philosophy to current efforts at theory construction. Particular schools are critically evaluated, and recent convergences in social anthropology, sociology, and social psychology are noted.

4393 Sociology of Aging (Cross-listed as SWO 4393 and GRT 4393)

See SWO 4393 for course information.

4395 Aging and Mental Health (Cross-listed as SWO 4395 and GRT 4395)

See SWO 4395 for course information.

43C9 Senior Colloquium

Pre-requisite(s): SOC 1305, 3402, 4381, 4391 and senior standing.

A final overview of the major works of theory and research in sociology, including all subfields, and involving all sociology professors.

4V70 Special Topics in Sociology**1 to 3 sem. hrs.**

Pre-requisite(s): SOC 1305; and consent of instructor.

Course for students who wish to study with a professor in an area of sociology not covered by regular course offerings. Students will contract with professor regarding study and number of semester hours. May be repeated for credit up to a total of six semester hours, provided topic is different.

Spanish (SPA)**1401 Elementary Spanish**

Introduction to the Spanish language and culture: pronunciation, grammar, reading of simple texts, and conversation. Fee: \$50

1402 Elementary Spanish

Pre-requisite(s): SPA 1401 or appropriate score on departmental placement exam or departmental approval.

Continuation of SPA 1401. Fee: \$50

1412 Accelerated Elementary Spanish

Pre-requisite(s): Appropriate score on departmental placement exam or departmental approval.

An intensive course in first-year college Spanish especially for students with two-three years of high school Spanish. Covers the content of SPA 1401 and 1402 in only one semester. Fulfills the language requirement only when combined with SPA 2310 and 2320 (or the equivalent unless stipulated otherwise). As grammar is reviewed, emphasis is placed on the major skill areas (ACTFL Guidelines): reading, writing, listening, speaking, and cultural awareness. Fee: \$50

2304 Spanish for Heritage Speakers

Pre-requisite(s): Appropriate score on departmental placement exam (SPA 2310 or 2320) or consent of instructor.

Designed for students for whom Spanish is a heritage language (they acquired SPA informally at home, but their communicative ability can vary from basic to high proficiency). Review of grammar, exploration of SPA-speaking cultures, and practice to develop speaking and writing skills for professional contexts. May be substituted for SPA 2310 and SPA 2320 and used in fulfillment of the FL req. Fee: \$50

2310 Intermediate Spanish

Pre-requisite(s): SPA 1402 or 1412 or appropriate score on departmental placement exam or departmental consent.

Conversation, composition, cultural readings, and grammar review. Fee: \$50

2311 Intermediate Spanish for Teachers

Pre-requisite(s): SPA 1402 or 1412 or appropriate score on departmental placement exam or departmental consent.

Development of communication skills within a school (K-12) context with attention to vocabulary building, grammar review, conversation, composition, and cultural readings. Designed primarily for students in the School of Education, this course may be substituted for SPA 2310 to fulfill the foreign language requirement in Arts and Sciences. Fee: \$50

2320 Intermediate Spanish

Pre-requisite(s): SPA 2310, 2311, or 2312 or appropriate score on departmental placement exam or departmental consent.

Development of intermediate level skills in comprehension, speaking, reading, writing, and cultural interpretation through selected readings in Hispanic literature. Fee: \$50

2321 Intermediate Spanish for Medical Professions

Pre-requisite(s): SPA 2310, 2311, or 2312 or appropriate score on departmental placement exam or departmental consent.

Development of intermediate level skills in comprehension, speaking, reading, writing, and cultural interpretation with an emphasis on medical and scientific issues for prospective medical and health-care professionals. May be substituted for SPA 2320. Fee: \$50

2322 Spanish for Christian Ministry

Pre-requisite(s): SPA 2310, 2311, or 2312 or appropriate score on departmental placement examination or departmental approval.

Development of vocabulary, grammar, composition, and conversation skills in Spanish for students interested in Christian ministry, using the Bible and related religious materials. May be substituted for SPA 2320. Fee: \$50

2324 Intermediate Spanish for Business

Pre-requisite(s): SPA 2304 or 2310; or appropriate score on departmental placement exam; or departmental approval.

Development of communication skills with a business context with attention to vocabulary building, grammar review, conversation, composition, and cultural readings. Designed primarily for students in the School of Business, this course may be substituted for SPA 2320 to fulfill the foreign language requirement in Arts and Sciences. Fee: \$50

2412 Accelerated Intermediate Spanish

Pre-requisite(s): SPA 1412 or placement into SPA 2310 or 2320 and departmental approval.

Intensive intermediate Spanish course geared toward strong language learners. Content of Spanish 2310 and 2320 in one semester. Continued development of Spanish language skills, including listening, speaking, reading and writing. Emphasis on cultural and literary readings. May be substituted for SPA 2310 and SPA 2320 and used in fulfillment of the foreign language requirement.

3302 Conversation and Composition

Pre-requisite(s): SPA 2304, 2320, 2321, 2322, 2324 or 2412; or appropriate score on departmental placement exam; or consent of division director

A bridge course between second-year SPA and more advanced courses in major/minor; development of oral and written proficiency in Spanish.

3305 Introduction to Hispanic Literature

Pre-requisite(s): SPA 2320, 2321, 2322, or 3302.

Introduction to the tools of literary criticism and practice in stylistic analysis of Spanish texts.

3309 Introduction to Spanish Linguistics

Pre-requisite(s): SPA 2320, 2321, or 2322; or appropriate score on departmental placement exam; or departmental approval.

An introduction to the study of language and linguistics in general and of the sounds, structure, and meaning of Spanish in particular.

3310 Spanish Civilization

Pre-requisite(s): SPA 2320, 2321, 2322, or 3302 or consent of division director.

Study of Spanish history and culture.

3311 Spanish-American Civilization

Pre-requisite(s): SPA 2320, 2321, 2322, or 3302 or consent of division director.

Study of Spanish-American history and culture.

3350 Survey of Spanish Literature through the Seventeenth Century

Pre-requisite(s): SPA 3305 or consent of division director.

Study of literary selections from the Middle Ages through the seventeenth century; readings, lectures, and reports.

3352 Survey of Spanish Literature from the Eighteenth Century

Pre-requisite(s): SPA 3305 or consent of division director.

Study of literary selections from the eighteenth century to the present time; readings, lectures, and reports.

3354 Survey of Latin American Literature to 1880

Pre-requisite(s): SPA 3305 or consent of division director.

Study of literary selections from the Spanish conquest to 1880; readings, lectures, and reports.

3356 Survey of Latin American Literature from 1880 to Present

Pre-requisite(s): SPA 3305 or consent of division director.

Study of literary selections from 1880 to the present; readings, lectures, and reports.

4303 Spanish Phonology and Morphophonology

Pre-requisite(s): SPA 3309.

The sounds of Spanish and the formation of its words, and the relationship between these two, morphophonology. It includes pronunciation and transcription of Spanish.

4304 Spanish Syntax

Pre-requisite(s): SPA 3309.

Spanish word order and sentence formation, phrasal structures and constructions that are different from English.

4305 Spanish Semantics and Pragmatics

Pre-requisite(s): SPA 3309.

The study of the meaning of words, sentences, and discourse and elements of conversation including context, usage and appropriateness.

4315 Methods of Foreign Language Teaching (Cross-listed with FRE 4315 and GER 4315)

Theoretical and historical bases with practical applications in communication methodology. Introduction to professional activities and materials. Although this course cannot be counted toward the first or second teaching field, it will be counted toward a major in Spanish.

4321 Spanish for Medical Professions II

Pre-requisite(s): SPA 2321, 3302 and consent of instructor.

In-depth experience with Spanish in medical contexts, including a community service-learning component, with emphasis on oral and aural proficiency.

4330 Advanced Grammar, Composition and Conversation

Pre-requisite(s): SPA 3302; and consent of instructor.

A review of grammar applied to the writing of compositions and conversational practice. Emphasis on writing style, practical and cultural topics, dialogues, and interviews.

4340 Professional and Literary Translation

Pre-requisite(s): SPA 4330 or equivalent or consent of instructor.

The theory and practice of translation, including poetry, short stories, and technical documents.

4362 Spanish Drama of the Golden Age

Pre-requisite(s): SPA 3305 or consent of division director.

Representative playwrights of seventeenth-century Spain; extensive study of selected works. Lectures, reports, class discussion, and term papers.

4363 Cervantes

Pre-requisite(s): SPA 3305 or consent of division director.

Study of the major works of Cervantes with emphasis on Don Quixote, the cultural milieu of sixteenth and seventeenth century Spain, and the views of present-day literary critics. Lectures, class discussions, oral reports, and term papers.

4364 Nineteenth Century Spanish Literature

Pre-requisite(s): SPA 3305 or consent of division director.

Representative plays, poems, essays, and novels from nineteenth century Spanish literature, emphasizing in-depth analysis of texts.

4366 Twentieth Century Spanish Literature

Pre-requisite(s): SPA 3305.

Study of representative poets, playwrights, and novelists of this century. Lectures, student reports, class discussions, and term papers.

4372 Latin American Short Story

Pre-requisite(s): SPA 3305.

An in-depth study of outstanding eighteenth, nineteenth and twentieth century Latin American short stories in light of current practice and trends in literary analysis.

4375 Contemporary Spanish American Theater

Pre-requisite(s): SPA 3305 or consent of division director.

Major trends of Spanish American theater as reflected in the works of major contemporary playwrights. Readings, lectures, and reports.

4376 The Spanish-American Novel

Pre-requisite(s): SPA 4370, 4374 or consent of division director.

A study of the origins and development of the Spanish-American novel (from 1816 to 1915). A study of the main literary movements as reflected or found in the novel, in an approved paper or project.

4378 Latin American Poetry

Pre-requisite(s): SPA 3305.

An overview of poetic trends in Latin American literature from pre-Hispanic times to the twentieth century.

4388 Topics in Hispanic Language and Literature

Pre-requisite(s): SPA 3305; or consent of division director.

A study of an author, work, period, genre, or current Hispanic literature or of an aspect of the Spanish language. Topic changes from semester to semester. May be repeated for credit if topic is different.

4V90 Special Problems

1 to 3 sem. hrs.

Pre-requisite(s): Consent of division director.

Independent study in Spanish language and literature in consultation with a professor. Examination and term paper. With content changed, this course may be repeated once for credit.

Statistics (STA)**1301 Statistical Reasoning: A Guide to the Unknown**

Pre-requisite(s): Freshman standing and consent of statistics undergraduate faculty advisor.

Philosophical, ethical, and sociological issues related to statistical uncertainty and randomness.

1380 Elementary Statistics

Introduction to traditional statistical concepts including descriptive statistics, binomial and normal probability models, tests of hypotheses, linear correlation and regression, two-way contingency tables, and one-way analysis of variance. Credit may not be obtained after receiving credit in STA 2381 or 3381.

2381 Introductory Statistical Methods

Pre-requisite(s): A grade of C or above in MTH 1321.

Parametric statistical methods. Topics range from descriptive statistics through regression and one-way analysis of variance. Applications are typically from biology and medicine. Computer data analysis is required.

3381 Probability and Statistics

Pre-requisite(s): A grade of C or above in MTH 1322.

Introduction to the fundamentals of probability, random variables, discrete and continuous probability distributions, expectations, sampling distributions, topics of statistical inference such as confidence intervals, tests of hypotheses, and regression.

3386 Regression Analysis

Pre-requisite(s): STA 3381 and MTH 2321.

A development of regression techniques including simple linear regression, multiple regression, logistic regression and Poisson regression with emphasis on model assumptions, parameter estimation, variable selection and diagnostics.

4330 SAS Programming for Statistical Science

Pre-requisite(s): STA 2381 or 3381.

Concepts in SAS programming including methods to establish and transform SAS data sets, perform statistical analyses, and create general customized reports. Methods from both BASE SAS and SAS SQL will be considered.

4360 Bayesian Data Analysis

Pre-requisite(s): STA 4385

An introduction to Bayesian inference emphasizing prior and posterior distributions, estimation, prediction, hierarchical Bayesian analysis, and applications with computer implemented data analysis.

4362 Applied Time Series Analysis

Pre-requisite(s): STA 3386.

Statistical methods of analyzing time series. Model identification, estimation, forecasting, and spectral analysis will be discussed. Applications in a variety of areas including economics and environmental science will be considered.

4370 Sampling Techniques

Pre-requisite(s): Three hours of statistical methods.

Planning, execution, and analysis of sampling from finite populations. Simple random, stratified random, ratio, systematic, cluster, sub sampling, regression estimates, and multi-frame techniques are covered.

4371 Data Management and Mining

Pre-requisite(s): STA 3381.

Terminology, techniques, and management of Data Mining for biostatisticians.

4372 Introduction to Biostatistics

Pre-requisite(s): STA 2381 or STA 3381 or consent of the instructor.

Data Analysis for biostatisticians in the biomedical and pharmaceutical fields.

4373 Computational Methods in Statistics

Pre-requisite(s): STA 2381 or STA 3381 or consent of the instructor.

Computational methods using statistical packages and programming.

4374 Statistical Process Control

Pre-requisite(s): STA 3381 or equivalent.

Development of statistical concepts and theory underlying procedures used in statistical process control applications and reliability.

4382 Intermediate Statistical Methods

Pre-requisite(s): A minimum grade of C in either STA 2381 or STA 3381; or consent of instructor.

Development and application of two-sample inference, analysis of variance and multiple regression. Assumptions, diagnostics and remedial measures are emphasized. Computer statistics packages are utilized.

4385 Mathematical Statistics I

Pre-requisite(s): MTH 2321 with minimum grade of C.

Introductions to the fundamentals of probability theory, random variables and their distributions, expectations, transformations of random variables, moment generating functions, special discrete and continuous distributions, multivariate distributions, order statistics, and sampling distributions.

4386 Mathematical Statistics II

Pre-requisite(s): STA 4385 with minimum grade of C.

Theory of statistical estimation and hypothesis testing. Topics include point and interval estimation, properties of estimators, properties of test of hypotheses including most powerful and likelihood ratios tests, and decision theory including Bayes and minimax criteria.

4387 Introduction to Probability Models

Pre-requisite(s): STA 4385 with minimum grade of C.

Applications of probability theory to the study of phenomena in such fields as engineering, management science, social and physical sciences, and operations research. Topics include Markov chains, branching processes, Poisson processes, exponential models, and continuous-time Markov chains with applications to queuing systems. Other topics introduced are renewal theory and estimation procedures.

43C9 Capstone Statistics Course

Pre-requisite(s): Approval of the statistics undergraduate faculty advisor.

Statistical concepts applied to written and oral reports for consulting. For students majoring in statistics.

4V90 Special Topics in Statistics**1 to 3 sem. hrs.**

Pre-requisite(s): STA 2381 or STA 3381.

Topics in probability and/or statistics not covered in other courses. May be repeated for a maximum of 6 hours if the content is different.

Strategic Learning (STL)**1101 Academic and Personal Success**

This course guides students to develop tools for effective learning and productive self-management in the Baylor academic environment. Topics focus on strategies for note taking, test preparation, test taking, and on methods for dealing with procrastination, stress, and test anxiety as well as for grade improvement, establishing academic priorities, and identification of an academic major and potential career. Some sections of the course offer five-week workshops while other sections provide the opportunity for weekly mentoring by a trained graduate student or for an independent study on a relevant topic. Sections will have varying titles descriptive of content. This Pass/Fail course may be attempted two times.

1102 Academic and Personal Achievement

A graded, one-hour course facilitating development of essential skills for learning and self-management in the college academic environment. Topics might include strategies for note taking, test preparation, grade improvement as well as tools for dealing with procrastination, stress, test anxiety, and goal-setting. The focus of a course section might be linked with a particular profession, discipline or student population.

1200 Strategic Learning for College Academics

Prepare students to exercise responsibility for their own learning by developing strategies for reading, understanding, analyzing, organizing, and applying information presented through lecture, textbooks, and other materials in the college classroom. Skills for taking notes, completing assignments, preparing for tests, and taking tests as well as strategies for accessing resources, managing time, dealing with stress, and setting priorities will also be developed.

1201 Strategic Learning

Prepare students to exercise responsibility for their own learning by developing strategies for reading, analyzing, organizing, and applying information presented through lecture, textbooks, and other materials in the college classroom. Skills for taking notes, completing assignments, preparing for and taking tests, as well as strategies for accessing resources, managing time, dealing with stress, and setting priorities will be developed.

Swahili (SWA)

1401 Elementary Swahili

Introduction to Swahili language and culture: pronunciation, grammar, reading of simple texts, and conversation. Fee: \$50

1402 Elementary Swahili

Pre-requisite(s): SWA 1401.

Continuation of SWA 1401. Fee: \$50

2310 Intermediate Swahili I

Pre-requisite(s): SWA 1402.

Conversation, composition, cultural readings, and grammar review. Fee: \$50

2320 Intermediate Swahili II

Pre-requisite(s): SWA 2310.

Continuation of SWA 2310. Fee: \$50

Syriac (SYR)

4304 Syriac (Cross-listed as REL 4304)

See REL 4304 for course information.

Teacher Education (TED)

1112 Instructional Technology Lab

Co-requisite(s): TED 1312.

The TED technology lab prepares teacher candidates for effective personal and classroom use of technology resources. Students will meet and exceed Texas State Board for Educator Certification (SBEC) requirements. Fee: \$100

1312 Introduction to Teaching I

This course provides preparation in the role of a teacher. Students will learn teaching strategies that are then applied in a tutoring experience. Fee: \$100.

2112 Instructional Technology Lab II

Pre-requisite(s): TED 1112.

The TED 2112 technology lab extends and builds on TED 1112 in preparing teacher candidates for effective personal and professional use of technology resources. At the conclusion of the Baylor teacher education program, candidates will meet and exceed Texas State Board for Educator Certification (SBEC) requirements as outlined in the Technology Applications Standards for All Beginning Teachers. Fee: \$100

2320 Teaching in the Elementary School

Pre-requisite(s): Completion of TED 1312 or concurrent enrollment.

An introduction to the role of the teacher in the elementary school. A field experience is included.

2330 Teaching in the Middle Grades

Pre-requisite(s): Completion of TED 1312 or concurrent enrollment.

An introduction to the role of the teacher in the middle school. A field experience is included.

2340 Teaching in Secondary Schools

Pre-requisite(s): Completion of TED 1312 or concurrent enrollment.

An introduction to the role of the teacher in the secondary school. A field experience is included.

2360 Teaching Special Education

Pre-requisite(s): TED 1312.

This course provides initial preparation in the role of a special education teacher. Students will learn teaching strategies for students with disabilities that are then applied in a one-to-one teaching experience.

2370 Teaching Physical Education

Co-requisite(s): TED 2112.

Pre-requisite(s): Completion of TED 1312 or concurrent enrollment.

This course provides teacher candidates with an introduction to the role of the all-level physical education instructor. Course includes a field experience in grades K - eight.

2380 Educational Thought in the Western World

This course will address the history of Western educational thought from the ancient Greek ideas of Plato and Aristotle to the modern naturalistic theories of Jean-Jacques Rousseau.

2381 American Educational Thought

This course will address the history of American educational thought from the founding of the Republic to the present day. Individuals to be considered will include Thomas Jefferson, Horace Mann, William James, and John Dewey.

3301 Early Literacy Learning

Preparation of preservice teachers to plan, organize, and implement an early literacy program that ensures that young children will be reading beginning materials independently by the end of the first grade. Course includes a field experience. Fee: \$50

3325 Literacy Instruction in the Elementary School

Co-requisite(s): TED 4302 and 4308.

Pre-requisite(s): TED 2320 or TED 2330 or EDP 2350 or EDP 2360.

An examination of methods of teaching reading in the elementary school. Includes atypical and typical language and literacy development in children in the elementary school.

3335 Literacy Instruction in the Middle Grades

Co-requisite(s): TED 3630.

Pre-requisite(s): TED 2330 or 2340.

Introduction to typical and atypical literacy instruction in middle grades and an overview of cognitive, emotional, social, and physical development of adolescents. Includes reading, writing, oral language, and an introduction to literature for adolescents. Requires a field-experience in a local school. Concurrent enrollment in TED 3630 required.

3340 Teaching Associate Secondary Part I

Pre-requisite(s): TED 2340 or concurrent enrollment.

Practicum of one hundred hours in a local secondary classroom matching the selected content certification area. Course includes weekly seminars.

Fee: \$50

3341 Teaching Associate Secondary Part II

Pre-requisite(s): TED 2340.

Continuation of Teaching Associate Secondary Part I. Practicum of one hundred hours in a local secondary classroom matching the selected content certification area. Course includes weekly seminars.

3346 Foundations of Secondary Reading and Writing

A study of the typical and atypical developmental stages of reading and writing for secondary students. Focuses on instructional strategies in reading and writing to meet the needs of all students. Course includes a field experience.

3362 Middle Grades Social Studies

Pre-requisite(s): TED 3380.

The course will expose middle school social studies teachers to the philosophies, methods and culturally relevant practices that nuance the field's expressed disciplinary aims. Teachers will be asked to rethink traditional social studies instruction and develop transformational postures that will increase and diversify their pedagogical repertoires.

3370 Data Analysis and Instruction

Pre-requisite(s): TED 3380.

An analysis of standardized assessments given at national, state, district, campus, and individual student levels. Planning and implementing instructional activities based on areas of need identified in the analysis. Field experiences are a critical element of the course.

3380 Social Issues in Education

This course will explore cultural and social issues that influence education. Fee: \$100.

3383 Secondary Mathematics Practicum I

Course combines a practicum in a local secondary mathematics classroom with lecture and discussion about adapting instruction to meet the needs of diverse students, strategies for large and small groups, NCTM Standards, and teaching resources.

3384 Secondary Mathematics Practicum II

Pre-requisite(s): TED 2330 or TED 2340.

Continuation of Secondary Mathematics Practicum I. Course combines a practicum in a local secondary mathematics classroom with lecture and discussion about adapting instruction to meet the needs of diverse students, strategies for large and small groups, NCTM Standards, and teaching resources.

3385 Secondary Social Studies Practicum I

Course combines a practicum in local secondary social studies classroom with lecture and discussion on adapting instruction to meet the needs of diverse students, strategies for large and small groups, technology in the classroom and teaching resources.

3386 Secondary Social Studies Practicum II

Continuation of Secondary Social Studies Practicum I. Course combines a practicum in a local school with in-depth discussion of instructional design, technology in the classroom, and assessment. The course also includes overview of content included in secondary history, geography, economics and civics education courses.

3387 Secondary Science Practicum I

Course combines a practicum in a local school with lecture and discussion on adapting instruction to meet the needs of diverse students, strategies for large and small groups, technology in the classroom and the use of inquiry in science classes.

3388 Secondary Science Practicum II

Co-requisite(s): TED 3341.

Pre-requisite(s): TED 3340 and 3387.

Course combines a practicum in a local school with in-depth discussion of instructional design, technology in the classroom, and assessment. The course also includes an overview of content of secondary science courses.

3390 Secondary Foreign Language Practicum I

Co-requisite(s): TED 3340.

Course combines a practicum in a local school with lecture and discussion on adapting instruction to meet the needs of diverse students, strategies for large and small groups, and technology in the classroom in foreign language classes.

3391 Secondary Foreign Language Practicum II

Co-requisite(s): TED 3341.

Course combines a practicum in a local school with lecture and in-depth discussion of instructional design, technology in the classroom, and assessment and action research in the classroom.

3394 Secondary Art Practicum I

Co-requisite(s): TED 3340.

Course combines a practicum in a local school with lecture and in-depth discussion of instructional design, components of a secondary art program, technology in the art classroom, assessment and action research in the classroom.

3395 Secondary Art Practicum II

Co-requisite(s): TED 3341.

Pre-requisite(s): TED 3340 and 3394.

Continuation of Secondary Art Practicum I. Course combines a practicum in a local school with in-depth discussion of components of the art program, instructional design in art, technology in the classroom, and assessment in art classes.

3396 Secondary English Language Arts Practicum I

Co-requisite(s): TED 3340.

Course combines a practicum in a local secondary English classroom with lecture and discussion about adapting instruction in English to meet the needs of diverse students, strategies for large and small groups, teaching grammar, writing, and literature.

3397 Secondary English Language Arts Practicum II

Co-requisite(s): TED 3341.

Pre-requisite(s): TED 3340 and 3396.

Continuation of Secondary English Language Arts Practicum I. Course combines practicum in a local secondary English classroom with lecture and discussion about adapting instruction in English to meet the needs of diverse students, strategies for building vocabulary, developing written and oral language, and an overview of the history of English.

3398 Secondary Business Practicum I

Co-requisite(s): TED 3340.

Course combines a practicum in a local school with lecture and in-depth discussion of the economic system, components of a secondary business program, technology in the classroom, leadership and career development, assessment of student learning, and action research in the business classroom.

3399 Secondary Business Practicum II

Co-requisite(s): TED 3341.

Pre-requisite(s): TED 3340 and 3398.

A continuation of TED 3398 Secondary Business Practicum I. Course combines a practicum in a local school with lecture and in-depth discussion of the economic system, components of a secondary business program, technology in the classroom, leadership and career development, assessment of student learning, and action research in the business classroom.

3620 Teaching Associate Elementary School Part I

Co-requisite(s): TED 3325, 4302 and 4308.

Pre-requisite(s): TED 2320 or EDP 2350 or concurrent enrollment.

Practicum of one hundred hours in the elementary school in a local classroom. Teacher candidates will work with small and large groups in instruction in reading. Course includes a weekly seminar. Fee: \$50

3621 Teaching Associate Elementary School Part II

Co-requisite(s): TED 4307 and 4326.

Pre-requisite(s): TED 2320 or EDP 2350 or concurrent enrollment.

Practicum of one hundred hours in the elementary school in a local classroom. Teacher candidates will work with small and large groups in instruction in mathematics. Course includes a weekly seminar.

3630 Teaching Associate Middle Grades Part I

Pre-requisite(s): TED 2330 or 2340.

Practicum of one hundred hours in a local middle grade classroom matching the selected content certification area. Teacher candidates will work with small and large groups of students. Course includes a weekly seminar. Fee: \$50

3631 Teaching Associate Middle Grades Part II

Pre-requisite(s): TED 2330 or 2340.

Continuation of TED 3630. Practicum of one hundred hours in a local middle grade classroom matching the selected content certification areas. Teacher candidates will work with small and large groups of students. Course includes a weekly seminar.

3640 Teaching Associate Secondary Part I

Pre-requisite(s): TED 2340.

Practicum of one hundred hours in a local secondary classroom matching the selected content certification area. Course includes weekly seminars.

3641 Teaching Associate Secondary Part II

Pre-requisite(s): TED 2340.

Continuation of TED 3640. Practicum of 100 hours in a local secondary classroom matching the selected content certification area. Course includes weekly seminars.

3651 Teaching Associate EC-6 with Special Education and Gifted Education

Pre-requisite(s): EDP 2350 and 3650; and EDP 3324 and 3326.

In this course, teacher candidates teach small groups of early childhood through grade 6 general education with special education or gifted education students within the specific disciplinary areas that match their certificate areas. The practicum consists of 97.5 hours in a professional development or partner school (7.5 hours per week). Teacher candidates will work with small and large groups of students. Course includes seminars.

3670 Teaching Associate Physical Education Part I

Pre-requisite(s): TED 2370.

Practicum of one hundred hours teaching physical education in a local school. Teacher candidates will work with small and large groups of students. Course includes a weekly seminar. Fee: \$50

3671 Teaching Associate Physical Education Part II

Continuation of TED 3670. Practicum of one hundred hours teaching physical education in a local school. Teacher candidates will work with small and large groups of students. Course includes a weekly seminar.

4302 Elementary Reading - Integrated Language Arts

Co-requisite(s): TED 3325 and 3620.

Pre-requisite(s): TED 3301 or concurrent enrollment.

Language Arts is comprised of all communication skills-reading, writing, listening, speaking. Students will develop strategies for facilitating communication skills and integrating the language arts across the curriculum.

4307 Science in the Elementary School

Co-requisite(s): TED 4326.

Pre-requisite(s): TED 2320 or TED 2330 or EDP 2350 or EDP 2360 or concurrent enrollment.

A study of the content of elementary science. Design and presentation of laboratory activities appropriate to various grade levels. Fee: \$50

4308 Social Studies in the Elementary School

Pre-requisite(s): TED 2320 or TED 2330 or EDP 2350 or EDP 2360 or concurrent enrollment

The types, classification, and organization of social studies content. Emphasis on the integration of the historical, geographical, and civic content of the social studies. Fee: \$50

4312 Methods of Teaching English as a Second Language

Strategies for teaching English to non-English speaking students at the elementary and secondary levels. Emphasis will be placed upon developing specific instructional approaches appropriate for the individual's language background.

4322 Teaching English in the Secondary School

Instructional methods and teaching aids and materials for the teaching of English in grades 7-12. Contemporary concerns relevant to the curriculum development of the English language arts in the components of language, composition, and literature will be stressed.

4325 Teaching Science in the Secondary School

A survey of contemporary secondary school science programs (all sciences) emphasizing their philosophies, designs, and unique methods and strategies for teaching. Fee: \$50

4326 Mathematics in the Elementary Grades

Pre-requisite(s): TED 2320 or TED 2330 or EDP 2350 or EDP 2360.

Mathematics content, materials, and conceptual activities for the elementary school. The emphasis of the course is to prepare the elementary school teacher to implement a constructivist approach to the teaching of mathematics based on an understanding of the National Council of Teachers of Mathematics (NCTM) standards. Includes laboratory experiences in teaching mathematics in the elementary school. Fee: \$50

4336 Mathematics in the Upper Elementary Grades

Pre-requisite(s): TED 2330 or TED 2340 and Admission to the Teacher Education Program.

The student will be exposed to a wide range of issues and theories in mathematics curriculum and encouraged to relate these to his or her own teaching practices. Opportunities for teaching and observation of teaching will be provided in order to analyze and reflect on teaching practices appropriate for upper elementary grade mathematics.

4337 Mathematics in the Middle School

Pre-requisite(s): TED 2330 or 2340.

A constructivist approach to help students develop knowledge of mathematics in grades four to eight. Teaching strategies are presented with developmental activities that can be used with middle grade students. Students will reflect on what it means to teach mathematics and explore the factors that influence teaching. The NCTM Standards for Grades four-eight will be emphasized. Includes laboratory experiences in teaching mathematics in middle grades. Fee: \$50

4341 Social Studies Curriculum

Pre-requisite(s): TED 3630 or 3640.

Organization, content, research practices, and technology in the social studies curriculum in middle and secondary grades. Includes a discussion of current issues and standards in social studies teaching.

4348 Secondary Mathematics Curriculum

Methods and activities used to actively engage secondary school students in the construction of mathematical ideas will be investigated along with an analysis of the secondary mathematics curriculum. Candidates will reflect on what it means to teach mathematics and explore factors that influence teaching. The NCTM Standards will be emphasized. Includes laboratory experiences in teaching mathematics at the secondary school level. Fee: \$50

4349 Critical Issues in Mathematics Education

Pre-requisite(s): TED 2330 or 2340.

Teacher candidates will investigate critical issues in the nature of knowledge and inquiry in middle grade and secondary school mathematics. Candidates will explore current issues related to teaching practices and experiences. The NCTM Standards along with relevant research will provide a foundation.

4355 Teaching Geography in the Social Studies

Pre-requisite(s): Upper-level standing or consent of instructor.

The focus of this course is to provide EC-4, 4-8, and 8-12 certificate level teacher education students an in-depth exploration of the curriculum and pedagogy of geography education in the social studies. Special emphasis will be given to developing curriculum and methodologies consistent with the five themes of the National Geography Standards.

4397 Student Teaching in Private Schools

Pre-requisite(s): Concurrent enrollment in TED 4620, TED 4630, TED 4640, EDP 4650, EDP 4660 or TED 4670.

A course designed to extend student teaching to a private school. Students will be involved in full-time student teaching for a minimum of four weeks.

4399 International Internship Comparative Education

Pre-requisite(s): TED 3340, TED 3620, TED 3630, TED 3670, EDP 3650, or EDP 3660.

This program is designed to extend the teaching experience. For teaching candidates in the School of Education at Baylor University. Teacher candidates will engage in cultural exchange, travel and education programs including three weeks of teaching and a comparative study of educational systems and instructional strategies.

4620 Internship Elementary Part I

Co-requisite(s): TED 4621.

Pre-requisite(s): Grade of B or better in TED 3620 and 3621.

Full-time teaching experience in a professional development school. A mentor teacher and resident faculty will support teacher candidates as they gradually assume complete responsibilities for teaching. Course includes two eighty-minute seminars per week.

4621 Internship Elementary Part II

Co-requisite(s): TED 4620.

Pre-requisite(s): Grade of B or better in TED 3620 and 3621.

Planning and preparing lessons and materials for full-time teaching. Includes completion of content modules, conferencing with mentor teacher and university instructor, written lesson reflections, observation of lessons taught by master teachers, and preparation of web-based portfolio.

4622 Internship Elementary Part III

Co-requisite(s): TED 4623.

Pre-requisite(s): Grade of B or better in TED 3620 and 3621.

Continuation of TED 4620 and TED 4621.

4623 Internship Elementary Part IV

Co-requisite(s): TED 4622.

Pre-requisite(s): Grade of B or better in TED 3620 and 3621.

Continuation of TED 4620 and TED 4621.

4630 Internship Middle Grades Part I

Co-requisite(s): TED 4631.

Pre-requisite(s): Grade of B or better in TED 3630 and TED 3631.

Full-time teaching experience in a professional development school. A mentor teacher and resident faculty will support teacher candidates as they gradually assume complete responsibilities for teaching. Course includes two eighty-minute seminars per week.

4631 Internship Middle Grades Part II

Co-requisite(s): TED 4630.

Pre-requisite(s): Grade of B or better in TED 3630 and 3631.

Planning and preparing lessons and materials for full-time teaching. Includes completion of content modules, conferencing with mentor teacher and university instructor, written lesson reflections, observation of lessons taught by master teachers, and preparation of electronic portfolio.

4632 Internship Middle Grades Part III

Co-requisite(s): TED 4633.

Pre-requisite(s): Grade of B or better in TED 3630 and 3631.

Continuation of TED 4630 and TED 4631.

4633 Internship Middle Grades Part IV

Co-requisite(s): TED 4632.

Pre-requisite(s): Grade of B or better in TED 3630 and 3631.

Continuation of TED 4630 and TED 4631.

4640 Internship Secondary Part I

Co-requisite(s): TED 4641.

Pre-requisite(s): Grade of B or better in TED 3340 and 3341.

Full-time teaching experience in a professional development school. A mentor teacher and resident faculty will support teacher candidates as they gradually assume complete responsibilities for teaching. Course includes two eighty-minute seminars per week.

4641 Internship Secondary Part II

Co-requisite(s): TED 4640.

Pre-requisite(s): Grade of B or better in TED 3340 and 3341.

Planning and preparing lessons and materials for full-time teaching. Includes completion of content modules, conferencing with mentor teacher and university instructor, written lesson reflections, observation of lessons taught by master teachers, and preparation of electronic portfolio.

4642 Internship Secondary Part III

Co-requisite(s): TED 4643.

Pre-requisite(s): Grade of B or better in TED 3340 and 3341.

Continuation of TED 4640 and TED 4641.

4643 Internship Secondary Part IV

Co-requisite(s): TED 4642.

Pre-requisite(s): Grade of B or better in TED 3340 and 3341.

Continuation of TED 4640 and TED 4641.

4652 Internship Gifted and Talented Part III

Co-requisite(s): TED 4653.

Pre-requisite(s): Grade of B or better in EDP 3650 and TED 3651.

Continuation of EDP 4650 and EDP 4651.

4653 Internship Gifted and Talented Part IV

Co-requisite(s): TED 4652.

Pre-requisite(s): Grade of B or better in EDP 3650 and TED 3651.

Continuation of EDP 4650 and EDP 4651.

4670 Internship Physical Education Part I

Co-requisite(s): TED 4671.

Pre-requisite(s): Grade of B or better in TED 3670 and 3671.

Full-time experience in professional development. A mentor teacher and resident faculty will support teacher candidates as they gradually assume complete responsibilities for teaching. Course includes two eighty-minute seminars per week.

4671 Internship Physical Education Part II

Co-requisite(s): TED 4670.

Pre-requisite(s): Grade of B or better in TED 3670 and 3671.

Planning and preparing lessons and materials for full-time teaching. Includes completion of content modules, conferencing with mentor teacher and university instructor, written lesson reflections, observation of lessons taught by master teachers, and preparation of web-based portfolio.

4672 Internship Physical Education Part III

Co-requisite(s): TED 4673.

Pre-requisite(s): Grade of B or better in TED 3670 and 3671.

Continuation of TED 4670 and TED 4671.

4673 Internship Physical Education Part IV

Co-requisite(s): TED 4672.

Pre-requisite(s): Grade of B or better in TED 3670 and 3671.

Continuation of TED 4670 and TED 4671.

4690 Secondary School Teaching

Pre-requisite(s): TED 3641.

A full-time daily supervised teaching experience in a local public school. Students collaborate with classroom teacher to provide instruction under the direction of a university supervisor. Includes weekly seminar with supervisor.

4V98 Special Topics in Teacher Education

1 to 6 sem. hrs.

Pre-requisite(s): Upper-level standing or consent of instructor.

Examination of special topics in teacher education focusing on pedagogy, curriculum, and PK-12 field experience professional development. May be repeated once under a different topic not to exceed six semester hours.

Theater Arts (THEA)

1101 Fundamentals of Voice and Movement I

Co-requisite(s): THEA 1301.

An introduction to the fundamentals of voice and movement for the actor with emphasis on freeing the natural voice and developing awareness of the voice and body as creative, expressive instruments. This course supports the work done in acting core courses.

1102 Fundamentals of Voice and Movement II

Co-requisite(s): THEA 1302.

A continuation of THEA 1101 with emphasis on the fundamentals of voice and movement for the actor, freeing the natural voice, and developing awareness of the voice and body as creative and expressive instruments.

1103 Freshman Voice for Traditional Musical Theatre

Pre-requisite(s): Consent of instructor.

Acting technique and character development, in conjunction with vocal technique, as they relate to traditional musical theatre styles, in chorus roles with repertoire before 1965. Fee: \$75

1104 Freshman Voice for Contemporary Musical Theatre

Pre-requisite(s): Consent of instructor.

Acting technique and character development, in conjunction with vocal technique, as they relate to contemporary musical theatre styles, in chorus roles with repertoire after 1965. Fee: \$75

1110 The Fine Arts: An Experiential Survey of Music, Art, Theatre, and Film

Pre-requisite(s): Acceptance into the Fine Arts Living Learning Center.

An exploration of four Fine Arts disciplines (film, art, theatre, and music) from an interdisciplinary perspective, with emphasis on specific performances and exhibitions, and a small group focus on new student experiences.

1206 Theater Appreciation

Applicable toward fine arts-humanities requirements for Bachelor of Arts degree. Basic elements of theater: acting, design (costume, lighting, scene), directing, and dramatic literature. Fee: \$55

1301 Acting Realism: A Practical Approach

Co-requisite(s): THEA 1101.

Introduction to the basics of acting, including theatrical terminology, improvisation, scene study, and character analysis. Emphasis will be placed on an acting method based on the works of Constantin Stanislavski. Fee: \$75

1302 Acting Realism: Scene Study

Co-requisite(s): THEA 1102.

An introduction to basic acting technique. Students employ the character analysis, basic object exercises, and other acting tools toward producing a character study based on a modern American play. Fee: \$75

1312 Scenic Elements

Basic course in stagecraft. Technical crew lab included. Fee: \$75

1314 Acting for Non-Majors

Physical and vocal exercises, improvisational activities and games, relaxation, rehearsal and performance of theatrical dialogue and monologues, and short written assignments. Does not count on basic fine arts requirement for B.A. degree. Fee: \$75

1316 Costume and Stage Makeup Elements

Study and application of the theories and techniques of theatrical costuming, construction of theatrical clothing, and theatrical makeup. Technical crew lab included. Fee: \$150

1324 Script Analysis

Introduction to the process of script analysis, focusing on play structure, environmental research and character development, and culminating in written play analysis.

1380 Introduction to Theatre Aesthetics

An introduction to basic theatre aesthetics. Emphasis placed on elements and principles of design for visual storytelling.

1383 Theatrical Drafting

Introduction to theatrical hand drafting techniques, tools and standards, including fundamentals of graphic problem solving by visualization of elements in three-dimensional space. Fee: \$75

2101 Applied Voice and Movement I

Co-requisite(s): THEA 2301.

Pre-requisite(s): THEA 1102.

Continuation of the work begun in THEA 1101 and 1102 with emphasis on movement for the stage as it applies to realistic acting, as well as interpretive, post-modern theatre making.

2102 Applied Voice and Movement II

Pre-requisite(s): THEA 2101.

Continuation of the work begun in THEA 2101 with emphasis on movement for the stage as it applies to realistic acting, as well as interpretive, post-modern theatre making.

2103 Sophomore Voice for Traditional Musical Theatre

Pre-requisite(s): Consent of instructor.

Acting technique and character development, in conjunction with vocal technique, as they relate to traditional musical theatre styles, in small group/ensemble roles with repertoire before 1965. Fee: \$75

2104 Sophomore Voice for Contemporary Musical Theatre

Pre-requisite(s): Consent of instructor.

Acting technique and character development, in conjunction with vocal technique, as they relate to contemporary musical theatre styles, in small group/ensemble roles with repertoire after 1965. Fee: \$75

2105 Singing for the Actor

Pre-requisite(s): Instructor permission required.

Preparing the actor to participate in singing roles including ensemble work, straight plays with music, and Shakespeare sonnets. The course will also cover vocal technique, sight singing, and harmony/group singing. Course may be repeated for a maximum of 3 hours.

2113 Workshop in Traditional Musical Theatre I

Pre-requisite(s): Consent of instructor.

Application of techniques and skills learned in the voice class in a performance setting using materials from traditional musical theatre styles pre-1965. Fee: \$75

2114 Workshop in Contemporary Musical Theatre I

Pre-requisite(s): Consent of instructor.

Application of techniques and skills learned in the voice class in a performance setting using materials from contemporary musical theatre styles from 1965 to the present. Fee: \$75

2298 Ballet I

Ballet with emphasis on technique and vocabulary. Theatre Arts majors may substitute this class for one semester of Human Performance.

2299 Jazz I

Pre-requisite(s): THEA 2298.

Jazz techniques, vocabulary, and styles relevant to character/theatre dance. Theatre Arts majors may substitute this class for one semester of Human Performance.

2301 Auditioning and the Business of Acting

Co-requisite(s): THEA 2101.

Pre-requisite(s): THEA 1302.

An introduction to the business side of theatre and the various types of theatrical auditions, including cold readings, prepared monologues, improvisation, music and dance auditions. Fee: \$75

2302 Acting: Shakespeare

Pre-requisite(s): THEA 1302.

Exploration of the acting challenges of Shakespeare's plays, through studies of text sense and structure, and exercises for developing breath, relaxation, vocal energy, and creative acting choices. Fee: \$75

2316 Stage Makeup

Study and application of theories and techniques of theatrical makeup. Technical crew laboratory included. Fee: \$85

2370 Technology Fundamentals for Theatre

Introduction to essential software and technologies utilized in the creation of a live theatrical production. Fee: \$75

2371 Lighting and Sound Elements

General principles and practices of stage lighting and theatrical sound technology. Technical crew laboratory included. Fee: \$75

2374 Theater History I

Historical investigation of theatre practice, performance, and dramatic literature from ancient times through the Renaissance.

2375 Theater History II

Historical investigation of theatre practice, performance, and dramatic literature from the Renaissance through the nineteenth century. Emphasis on Europe and North America.

2383 Theatrical Drawing and Rendering

Principles and practices of drawing, rendering, and modeling techniques used for the theater. Fee: \$75

2385 Technical Theatre for Non-Theatre Majors

Pre-requisite(s): Consent of the Instructor

An introductory study of the tools, techniques, and concepts related to the technical aspects of theatre production. Fee: \$75

2390 Stage Management

The art and craft of stage management, including the role and responsibilities of the stage manager. Fee: \$75

3001 Production Lab

Pre-requisite(s): Junior standing.

Evaluation of acting and crew work for all major productions, thesis production, qualifying productions, and weekly workshops. May be taken a maximum of 3 times.

3103 Junior Voice for Traditional Musical Theatre

Pre-requisite(s): Consent of instructor.

Acting technique and character development, in conjunction with vocal technique, as they relate to traditional musical theatre styles, in solo limited supporting roles with repertoire before 1965. Fee: \$75

3104 Junior Voice for Contemporary Musical Theatre

Pre-requisite(s): Consent of instructor.

Acting technique and character development, in conjunction with vocal technique, as they relate to contemporary musical theatre styles, in solo limited supporting roles with repertoire after 1965. Fee: \$75

3106 Production Lab II

Pre-requisite(s): Junior standing and THEA 3105.

Continuation of THEA 3105.

3113 Workshop in Traditional Musical Theatre II

Pre-requisite(s): THEA 2113 and consent of instructor.

A continuation of THEA 2113. Fee: \$75

3114 Workshop in Contemporary Musical Theatre II

Pre-requisite(s): THEA 2114 and consent of instructor.

A continuation of THEA 2114. Fee: \$75

3297 Tap I

Pre-requisite(s): THEA 2298.

Tap with an emphasis on the basic steps, rhythms, and music theory related to the dance.

3298 Ballet II

Pre-requisite(s): THEA 2298.

A continuation of Ballet I, refining technique and developing broader ranges of movement.

3301 Acting: Advanced Realism

Pre-requisite(s): THEA 2302 and consent of instructor.

Correlating advanced acting techniques and the performance requirements of important realistic playwrights. Students will analyze, rehearse and perform scenes from playwrights of the early independent theater movement and from a range of contemporary playwrights. Fee: \$75

3302 Acting: Period Styles

Pre-requisite(s): THEA 1301, 1302, 2301, 2302 and consent of instructor.

An application of Stanislavski's periods of preparation to a range of historic works. Scenes and monologues may draw from a variety of periods including Greek, Medieval, Elizabethan, Restoration, and Romantic plays. Fee: \$75

3303 Theatre for Young Audiences

Pre-requisite(s): THEA 1302 and upper-level standing.

An applied study of the dramatic literature and production techniques of theater intended for young audiences. Emphasis will be on techniques of acting and the creation of new material. Fee: \$75

3304 Acting: Playwright Study

Pre-requisite(s): Consent of instructor.

The application of advanced acting techniques to the unique style and period conventions of an individual playwright. May be repeated once for credit with study of a different playwright(s). Fee: \$75

3316 Costume Draping and Patterning

Pre-requisite(s): THEA 1316.

Technical skills with emphasis on interpreting two-dimensional drawings into three-dimensional costumes by manipulating fabric through draping, patterning, and construction. Fee: \$75

3323 Costume Crafts

Pre-requisite(s): THEA 1316 or consent of the instructor.

Technical skills with an emphasis on 2D and 3D techniques in creating and modifying specialty costume pieces. Fee: \$75

3324 Directing I/Script Analysis

Pre-requisite(s): THEA 1301 and upper-level standing.

A study of play analysis for beginning directors. Workshop laboratory required. Fee: \$75

3325 Directing II

Pre-requisite(s): THEA 3324.

Continuation of THEA 3324. A study of techniques of play direction. Fundamental consideration of blocking and director-actor communication. Workshop laboratory required. Fee: \$75

3326 Costume Design

Pre-requisite(s): THEA 1316.

Development and execution of costume designs for a variety of theatrical situations. Lectures, design projects, critiques, and discussions. Fee: \$75

3327 Advanced Makeup Techniques

Pre-requisite(s): THEA 1316.

This course builds on introductory skills learned in THEA 1316 (Costume and Makeup Elements). Students will study advanced application skills and tools for character transformation with makeup, masks, and 3D elements. Fee: \$75

3333 Theatre in Cultural Context

Pre-requisite(s): For theatre majors only or consent of instructor.

An exploration of theatre production and theatrical history particular to a specific region of the world, with references to regional historical, political, social, cultural, artistic, and architectural influences. Course may be repeated for a maximum of six semester hours if topic varies.

3341 Master Works in Drama (Cross-listed as GTX 3341)

See GTX 3341 for course information.

3352 Japanese Theatre and Culture (Cross-listed as JPN 3352)

History and practice of theatre in Japan from earliest recorded history to the present era.

3363 Metal-Working for the Theatre

Pre-requisite(s): THEA 1312.

Prepares students for various aspects of metal-working for the theatre, including safety, welding, cutting, and shaping. Fee: \$75

3370 Scene Design

Pre-requisite(s): THEA 1312

Survey of theatrical design and scene designers, and the realization of students' designs as floor plans, renderings, and models. Fee: \$75

3371 Lighting Design

Pre-requisite(s): THEA 2371

Lighting design in theatrical production and as an artistic tool in manipulating three-dimensional space. Fee: \$75

3372 Scene Painting

Pre-requisite(s): THEA 1312; upper-level standing.

Introduction to large scale painting. Students execute texture techniques. Fee: \$75

3380 Sound Design (Cross-listed as FDM 3380)

Pre-requisite(s): THEA 2371 or FDM 2360.

The creation and implementation of sound design for theatre; also applicable to film, music production, video games, and live events. Includes the artistic process of design and the development of technical abilities and conceptual approaches to sound manipulation. Fee: \$75

3383 Computer Aided Drafting and Modeling

Pre-requisite(s): THEA 1383.

Computer aided drafting to incorporate many of the principals covered in THEA 1383 (hand-drafting for the theater). Utilize both the vector-based Vector works software and the floating-point algorithm-based AutoCAD software. Fee: \$75

3390 Marketing for the Performing Arts

Audience development principles and marketing techniques for both commercial and non-profit arts organizations. Emphasis on live theatre. Technical crew lab included.

3398 Theatrical Props: Construction and Management

Pre-requisite(s): THEA 1312 and consent of instructor.

Practical study of the design, construction, organization, and implementation of theatrical properties in production. Fee: \$75

4102 Theatre in the Professional World

Pre-requisite(s): Senior standing and consent of instructor.

Prepares majors for the transition from academia to the professional arena. Fee: \$75

4103 Senior Voice for Traditional Musical Theatre

Pre-requisite(s): Consent of instructor.

Acting technique and character development, in conjunction with vocal technique, as they relate to traditional musical theatre styles, in solo leading roles with repertoire before 1965. Fee: \$75

4104 Senior Voice for Contemporary Musical Theatre

Pre-requisite(s): Consent of instructor.

Acting technique and character development, in conjunction with vocal technique, as they relate to contemporary musical theatre styles, in solo leading roles with repertoire after 1965. Fee: \$75

4107 Production Lab III

Pre-requisite(s): Senior standing and THEA 3106.

Evaluation of acting and crew work for all major productions, thesis production, qualifying productions, and weekly workshops.

4108 Production Lab IV

Pre-requisite(s): Senior standing and THEA 3106.

A continuation of production methods learned in THEA 3106.

4113 Workshop in Traditional Musical Theatre III

Pre-requisite(s): THEA 3113 and consent of instructor.

A continuation of THEA 3113. Fee: \$75

4114 Workshop in Contemporary Musical Theatre III

Pre-requisite(s): THEA 3114 and consent of instructor.

A continuation of THEA 3114. Fee: \$75

4190 Portfolio Development

Pre-requisite(s): Consent of instructor.

Development of design portfolios and presentation skills needed for professional employment in theatrical design.

4297 Jazz II

Pre-requisite(s): THEA 2298 and 2299.

Continuation of Jazz I, refining technique and exploring different styles of jazz and character dance.

4298 Tap II

Pre-requisite(s): THEA 3297.

Continuation of Tap I, refining technique and exploring advanced rhythms and steps.

4301 Acting for the Camera

Pre-requisite(s): THEA 1301, 2101, 2301, 2302, 3301, and 3302.

Preparation for professional performance in television and film. Fee: \$75

4321 History of Costume

Pre-requisite(s): Upper-level standing or consent of instructor.

A study of dress from Egyptian times to the twentieth century.

4322 History of Decor in the Western World

Pre-requisite(s): Upper-level standing.

Major historical movements and periods in architecture and decorative arts in the West, with special attention to how these trends relate to theatrical design.

4326 Advanced Costume Design

Pre-requisite(s): THEA 3326.

Advanced principles and practices of costume design, with an emphasis on the design team/director collaboration. Fee: \$75

4335 Creative Dramatics

Pre-requisite(s): Consent of instructor.

Education, theory, and philosophy that will cultivate the techniques of creative dramatics and develop the skills needed for human interaction in dramatic play. Lab required.

4351 Automated Lighting

Pre-requisite(s): THEA 2371.

Design techniques and the programming of automated lighting fixtures on various lighting consoles. Fee: \$75

4365 Advanced Directing I

Pre-requisite(s): THEA 3324 and 3325.

Directing techniques for departures from realism, with an emphasis on postmodern theatre, musical theatre, and verse drama. Workshop required. Fee: \$150

4366 Advanced Directing II

Pre-requisite(s): THEA 4365.

Continuation of THEA 4365. Workshop required. Fee: \$150

4370 Advanced Scene Design

Pre-requisite(s): THEA 3370; and upper level standing.

Development and execution of scenic designs for a variety of theatrical situations. Lectures, design projects, critiques and discussions. Fee: \$75

4371 Advanced Lighting Design

Pre-requisite(s): THEA 3371.

Developing and executing lighting designs for a variety of situations. Lectures, design projects, cue composition, and critique and discussion. Fee: \$75

4373 Playwriting

Pre-requisite(s): THEA 3324.

A study of the art and craft of playwriting with an emphasis on play structure, development of the personal voice, use of dramatic irony, and character development. Fee: \$75

4376 Theater History III

Pre-requisite(s): THEA 2374 and 2375; and upper-level standing.

Historical investigation of theatre practice, performance, and dramatic literature from the early twentieth century to the present.

4377 The Theatre and Christianity

Pre-requisite(s): Upper-level standing or consent of instructor.

An exploration of biblical perspectives concerning creativity and the arts with a special emphasis on theatre and the performing arts.

4378 Dramaturgy: Theory and Practice

Pre-requisite(s): THEA 4376 and consent of instructor.

Investigation of the functions and methods of the dramaturg such as choosing a season, audience enrichment, new play development, researching production history, and understanding dramatic structure and theory.

4379 Advanced Studies in Contemporary Theatre and Drama

Pre-requisite(s): THEA 2374, 2375, and 4378.

Topics related to leading contemporary playwrights, current issues of dramatic style, and emerging trends in theatrical practice. May be repeated once for credit with different content.

4380 Performing Arts Management

Pre-requisite(s): Upper-level standing.

Organizational structure, fundraising techniques, and board development for non-profit professional and commercial performing arts organizations. Includes contracting with professional unions, budgeting, and season planning. Technical crew lab included.

4384 Advanced Sound Design (Cross-listed as FDM 4371)

Pre-requisite(s): THEA 3380/FDM 3380.

A continuation of THEA 3380/FDM 3380. This course builds upon the sound design skills gained previously and adds training in the advanced functions of industry standard software. Students will develop a personal design style, a discerning ear for quality audio, and in-depth knowledge of the production process. Intended for theatre designers, this course is also applicable to film, music production, video games, and live events. Fee: \$75

4390 Advanced Stage Management

Pre-requisite(s): THEA 2390.

Role and responsibilities of the stage manager using the Regional Theatre or LORT Stage Manager model. Explores budgeting, seasonal planning and responsibilities in touring and non-theatrical situations. Fee: \$75

4395 Stage Combat

Pre-requisite(s): Upper-level standing and consent of instructor.

Actor movement in stage combat (armed and unarmed) with emphasis on proper technique, safety, and theatricality. May be repeated once for credit with different contents. Fee: \$75

4398 Technical Direction for Theater

Pre-requisite(s): THEA 1312, 1316, 1383, and 2371.

Four basic areas of technical direction: creating technical drawings, estimating a set, choosing materials used in the theater, and scheduling the building of sets for the theater. This course may be repeated once with a different topic. Fee: \$75

4V99 Special Studies in Theater Arts for Majors 1 to 3 sem. hrs.

Pre-requisite(s): Senior standing and consent of instructor.

Advanced studies in special theater topics. May be repeated for up to six hours credit.

4VC5 Production Capstone**1 to 3 sem. hrs.**

Pre-requisite(s): Senior standing and consent of instructor.

Advanced practicum in production performance design technical theater or management. May be repeated with different topic not to exceed six credit hours. Fee: \$75

University Scholars (UNSC)

3001 Exit Interview HNR

Pre-requisite(s): GTX 2301 and 2302, or consent of instructor.

Discussion of independent reading list and proposed thesis topic with a selected faculty committee.

3301 University Scholars Capstone HNR

Pre-requisite(s): Upper-level standing in University Scholars Program.

Special topics of study in modern and post-modern intellectual thought. Bridging genres and disciplines, the course encourages students to make connections with their previous study of Great Texts within the broad context of their University Scholars experience.

4101 Senior Thesis HNR

Pre-requisite(s): UNSC 3001 or consent of instructor.

Submission of an introductory chapter and bibliography for thesis.

4302 Senior Thesis HNR

Pre-requisite(s): UNSC 4101 or consent of instructor.

Completion of thesis and approval by assigned committee.

4V01 University Scholars Independent Study HNR 1 to 3 sem. hrs.

Pre-requisite(s): Permission of UNSC director and instructor.

Flexible credit optional. University Scholars Program for in-depth study of interdisciplinary topic not regularly offered in other traditional departments. Topic of study must be approved by program director and instructor and may not relate to the University scholar's proposed thesis. May be repeated only with permission of director and instructor.

4V21 University Scholars Special Topics 1 to 4 sem. hrs.

This course designed to allow University Scholars to pursue lines of inquiry not otherwise available in the curriculum. Topics of the course determined by instructor in coordination with the University Scholars Director. Course may be repeated.

University Studies (UST)

1V10 Beginning Science

1 to 3 sem. hrs.

Beginning science for summer program students.