

emphasis on reading and writing the language. Prerequisite: FREN 101 or equivalent. Lab fee \$5.

- 201-3 Composition and Reading. (3-0)** (TCCNS = FREN 2311) Development of increased facility in the French language through reading, writing, and conversation. Prerequisite: FREN 102 or equivalent.
- 202-3 Composition and Reading. (3-0)** (TCCNS = FREN 2312) Readings in literature with emphasis on vocabulary building, writing, and comprehension. Prerequisite: FREN 102 or equivalent.
- 486-v Special Problems. (Credit variable)** A course featuring independent reading, research, and discussion under personal direction of instructor. Topics vary according to student need. Open to students of senior classification or by approval of department head.

GENERAL BUSINESS (G B)

- 103-3 Business and Society. (3-0)** (TCCNS = BUSI 1301) Business as an integral part of society. Emphasis on ethics, social responsibility, the legal environment, and global perspectives.
- 311-3 Business Statistics. (3-2)** Methods of sampling, classifying, analyzing, and presenting numerical data; frequency distribution, averages, dispersion, times series analysis, correlation, and forecasting for business purposes. Prerequisite: Junior classification. Lab fee \$5.
- 312-3 Business Correspondence. (3-0)** A practical study of the construction, form, and uses of the different types of business letters and reports used in business and industry. It is suggested that the student review ADMS 105 and basic English usage prior to taking this course.
- 403-3 Texas Real Estate Agency Law. (3-0)** A study of agency concepts, basic agency relationships, disclosure and duties to client, disclosure and duties to third parties, creation and termination of the agency relationship, seller agency, subagency, buyer agency, representing more than one party in a transaction, dual agency, intermediary brokerage, single agency, clarifying agency relationships, employment issues, Deceptive Trade Practices and Consumer Protection Act, selected statutes and TREC rules, ethical and legal responsibilities.
- 404-3 Principles of Real Estate I. (3-0)** A study of licensing as a real estate broker and salesperson, distinctions between real and personal property, the real estate market, concepts of home ownership, real estate brokerage and the law of agency, fair housing laws and ethical practices, Real Estate License Act, interests in real estate, how ownership is held, legal descriptions, encumbrances and liens.
- 405-3 Principles of Real Estate II. (3-0)** A study of real estate taxes and other liens, real estate contracts, listing agreements, real estate appraisal, real estate financing (principles and practice), title transfer, title records, closing the real estate transaction, leases, property management, control of land use, real estate investment.
- 406-3 Texas Real Estate Contracts. (3-0)** A study of the Texas Real Estate License Act (TRELA) and the Rules of the Texas Real Estate Commission, the contract and other promulgated contracts and associated forms, obtaining a real estate loan, property descriptions, estimating seller net and buyer move-in.
- 407-3 Real Estate Law. (3-0)** Study of legal concepts of real estate, land description, real property rights and estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures, and evidence of titles. Prerequisite: G B 405 or permission of department head.

- 408-3 Real Estate Brokerage. (3-0)** A study of real estate brokerage office, planning and organization, operational policies and procedures, law of agency, recruiting, selection and training of personnel records and control, real estate firm analysis and expansion criteria.
- 409-3 Real Estate Appraisal. (3-0)** A study of the central purposes and functions of an appraisal, social and economic determinant of value, appraisal of case studies, cost, market data and income approaches to value estimates, final correlations, and reporting. Prerequisite: G B 405 or permission of department head.
- 432-3 Business Law I. (3-0)** The study of the principles of law relating to law and ethics, the judicial system, constitution, tort and criminal law, law of sales, and commercial property. Prerequisite: Junior classification.
- 433-3 Business Law II. (3-0)** The study of the principles of law concerning agency, employment, partnerships, corporations, bankruptcy, secured transactions, creditor/debtor rights, insurance, real and personal property, laws impacting the regulatory environment of business such as consumer protection, environment, anti-trust, and securities law. Prerequisite: Junior classification.
- 434-3 Employment Law. (3-0)** A study of the laws relating to employment. Includes defining the employer-employee relationship; regulation of discriminatory practices in employment (Title VII, the 1964 Civil Rights Act, and other statutes); regulation of the employment environment; and testing and evaluation of employee job performance. Prerequisite: Junior classification.
- 444-3 Introduction to International Business. (3-0)** Broad coverage of key concepts and issues in international business. Emphasis on the environment of international business and the operations of the multinational firm. Prerequisite: Junior classification.
- 459-3 Business Strategy. (3-0)** A capstone course involving the integration of concepts and principles studied in accounting, economics, finance, management, marketing, quantitative methods, and other relevant disciplines. Includes problem solving and business decision making. Designed to be taken by senior business majors during their last semester. Prerequisites: ACC 204, FIN 301, G B 311, MGMT 301, MKTG 314, or approval of department head.
- 484-3 International Business Law. (3-0)** A study of international commercial business and the legal environment within which it operates. The study of traditional international concepts of treaties, sovereignty, public and private laws, customs laws, licensing, franchising, environmental and employment law. Special emphasis on contracts for international sale of goods (CISG), GATT and WTO Treaties, NAFTA, regional trade areas.
- 485-3 Seminar in General Business. (3-0)** A study of selected topics dealing with problems or unique needs of business. May be repeated for credit as topics vary. Prerequisite: Permission to enroll is required.
- 486-v Business Problems. (Credit variable)** A directed study of selected problems in business. May be repeated with approval of the head of the Department. Prerequisites: Senior classification and approval of department head.
- 487-3 Small Business Consulting. (3-3)** Students will develop skill in diagnosing and analyzing problems of actual small business clients and will prepare formal written reports and recommendations for client implementation. Prerequisites: Senior classification and approval of department head.

- 489-3 Global Business Practices. (3-0)** The study of basic international business concepts, cultural literacy, and discipline specific content are then applied to practical experiences and activities related to the foreign country visited. A required study abroad at the student's expense is required. Student may complete a maximum of six hours of COBA sponsored study abroad toward degree completion. Prerequisites: Junior or Senior. GB 489, MGMT 489, or MKTG 489 may not be taken concurrently. Field assignment fee of \$75.
- 501-3 International Finance and Business Strategy. (3-0)** The course examines the major international issues pertaining to finance, including choosing and implementing an appropriate corporate strategy, the determination of exchange rates, international risk management, transfer pricing, and evaluating and financing international investment opportunities. There will be readings and case analysis and students will be required to report on research findings. Credit for both FIN 501 and G B 501 will not be awarded.
- 565-3 Managerial Statistics. (3-0)** Review of applied descriptive and inferential statistical calculations. Examination of statistics as a decision-making tool under uncertainty; focusing on probability, univariate/inferential and multivariate statistics. Emphasis is on interpretation of statistical information. Student will evaluate and interpret data, and report on current problems in the student's field of study. Prerequisite: PC based or undergraduate statistics. MS, Management and MS, HRM majors must have completed G B 598 or have permission of the instructor.
- 584-3 International Business Law. (3-0)** A study of international commercial business and the legal environment within which it operates. The study of traditional international concepts of treaties, sovereignty, public and private laws, customs laws, licensing, franchising, environmental and employment law. Special emphasis on contracts for international sale of goods (CISG) < GATT and WTO Treaties, NAFTA, regional trade areas. In addition, a research based project will be required. Graduate standing required.
- 586-v Business Problems. (Credit variable)** This course offers students the opportunity to become acquainted with current research being conducted within the student's area of interest, directed reading of a number of sources selected in concert by the student and professor.
- 587-3 Small Business Consulting. (3-0)** Students will develop skill in diagnosing and analyzing problems of actual small business clients and will prepare formal written reports and recommendations for client implementation, Prerequisites: 12 hours of graduate work and approval of SBI director.
- 588-3 Seminar in Business Strategy. (3-0)** An integrated view of the business functions addressed in the MBA core curriculum. Applies case analysis methodology for evaluating complex business situations, developing strategic alternatives, and recommending effective solutions. Prerequisites: FIN 503 and MKTG 508. Pre- or corequisites: the remaining MBA core courses.
- 589-3 Global Business Practices. (4.5-0)** A study of basic international business concepts, cultural literacy, and discipline specific content are then applied to practical experiences and activities in the foreign country visited. A study abroad at the student's expense is required. Graduate students will be required to complete an extensive research project in addition to other course requirements. Student may complete a maximum of six hours of COBA sponsored study abroad toward degree completion.

Prerequisites: Admission into a COBA graduate program and permission of the instructor.

- 598-3 Business Research Methods. (3-0)** Nature, scope, and significance of business research and research methodology; primary research methods with applications to specific problems, place of quantitative methods in research and individual investigation and report on current problems in student's field of interest.

GENETICS (GEN)

- 309-4 Introduction to Genetics. (2-2)** Fundamental principles of genetics: variation, heredity, and interaction of genes, linkage, sex linkage, and mutation. Special emphasis given to breeding of farm crops and domestic animals. Laboratory includes demonstration of Mendelian ratios with field crops and *Drosophila* and an introduction to statistical methods as applied to agricultural research. Credit for both AGRN 309 and GEN 309 will not be awarded. Prerequisite: BIOL 120 or 121 and junior classification. Lab fee \$7.
- 411-3 Genetics. (3-0)** Molecular basis of gene structure, function, regulation and expression, mutation theory, chromosomal aberrations, polyploidy effects and inheritance, genetic engineering, biotechnology, and genetic ethics. Credit for both AGRN 411 and GEN 411 will not be awarded. Prerequisite: AGRN 309 or GEN 309 or equivalent course.
- 511-3 Advanced Genetics. (3-0)** Impact of molecular genetics and biotechnology in agriculture and industry; evaluation of changes, discoveries, and potential of genetic engineering; assessment of related ethical impact on society. Credit for both AGRN 511 and GEN 511 will not be awarded. Prerequisite: AGRN 309 or GEN 309 or equivalent.

GEOGRAPHY (GEOG)

- 110-3 World Regional Geography. (3-0)** (TCCNS = GEOG 1303) Introduction to the basic concepts of geography through a study of the major regions of the world. This course enhances the understanding of world events, lifestyles, environments, cultures, and conflicts and emphasizes thinking spatially to study human-land relationships.
- 120-3 Introduction to Human Geography. (3-0)** This course is an introduction to geography as a social science, emphasizing the relevance of geographic concepts to human problems.
- 201-3 The Geography of Texas. (3-0)** This course uses the key concepts of regional geography to study the evolving character and nature of the different areas of Texas. The interaction of people and environment is used to study the economic development, social and political issues, urbanization, and other changes in Texas in the past and present.
- 202-3 Economic Geography. (3-0)** (TCCNS = GEOG 2312 OR GEOG 2311) This course examines economic activity and production as a function of geographic location. Introduces the basic concepts related to the advance, spread, and distribution of economic activity around the planet and considers the forces that are reshaping the global economy, the fundamentals of spatial economics, and classical location theories. Prerequisite: GEOG 110 or permission of instructor.
- 303-3 Geographic Techniques. (2-2)** This course is an introduction to three main techniques in geographic analysis: computer cartography, spatial statistics, and geographic information systems (GIS). The student will learn basic principles and techniques of producing maps, be introduced to basic spatial statistics, and learn the use of GIS as a tool to gather, store, manipulate,

and analyze various spatial databases. Only three hours credit will be awarded for A EC 303, GEOG 303, or AGRN 303. Prerequisite: GEOG 110 or permission of instructor. Lab fee \$15.

485-3 Geography Seminar. (3-0) This course will consider major issues in modern geography. May be repeated for credit when topics vary. Prerequisites: GEOG 110, junior classification or permission of instructor.

GEOLOGY (GEOL)

105-3 Physical Geology. (3-2) (TCCNS = GEOL 1403) An introduction to the physical processes that operate in and on the planet Earth. Topics of discussion include: the Earth's structure, rocks and minerals, volcanoes, earthquakes, groundwater, rivers, glaciers, and deserts. Core lab science credit will not be awarded for both GEOL 105 and GEOL 108. Lab fee \$10. Course fee \$5.

106-4 Historical Geology. (3-2) (TCCNS = GEOL 1404) History of the Earth from the formation of the solar system to the present. Topics include the Earth's development, evolution of life on Earth, changes in the Earth's geography throughout its history, and the tools geologists use to investigate these topics. Prerequisite: GEOL 105 or GEOL 108. Lab fee \$10. Course fee \$5.

107-4 Introduction to Environmental Science. (3-2) Introduction to the study of the environment. The course will examine air, water, and soil pollution, and pollution remediation. Energy, mineral resources, and land use will be studied. The course will also emphasize a study of the water supply, water use, and water management. Much of the laboratory will focus on land use planning and environmental pollution remediation. Lab fee \$15. Course fee \$10.

108-3 Natural Disasters. (3-2) Course focuses on the causes, effects, and mitigation of natural disasters around the world. Topics covered will include: plate tectonics, earthquakes, volcanoes, tsunami, landslides, meteor impacts, climate change, and major weather events such as tornadoes, floods, and hurricanes. Emphasis will be on methods used by scientists to monitor and study these natural phenomena, as well as the economic and societal impact of and response to the events. Core lab science credit will not be awarded for both GEOL 105 and GEOL 108. Course fee \$15. Lab fee \$10.

300-4 Crystallography and Mineralogy. (3-3) A study of the basic crystallographic forms, some of the common ore and rock forming minerals. An introduction to Optical Mineralogy. Prerequisite: GEOL 105. Lab fee \$10.

305-3 Paleontology. (2-3) An introduction to the study of fossils. A survey of the systematics, evolution and paleoecology of microfossils, plants, invertebrate and vertebrate fossils. Prerequisites: GEOL 105, 106 and BIOL 120, 121 or approval of department head. Lab fee \$10.

306-4 Igneous and Metamorphic Petrology. (3-3) An introduction to the origin, characteristics, and associations of igneous and metamorphic rocks. Introduction to igneous phase diagrams and metamorphic phase equilibria. Prerequisite: CHEM 105, 108, GEOL 105, 203, MATH 107 or higher. Course fee \$50. Lab fee \$10.

310-3 Geomorphology. (2-3) Study of surface processes in geological environments with emphasis on environmental and engineering applications. Topics include weathering, soil formation and erosion, landslides, and landforms associated with rivers, groundwater, coasts, arid and semi-arid climates. Laboratory emphasizes aerial photo and

topographic map interpretation. Prerequisites: GEOL 105, 106. Course fee \$25. Lab fee \$10.

- 312-3 Structural Geology. (2-3)** A study of the forces and processes resulting in the deformation of and structural features of units in the Earth's crust. Lab work includes solution of problems by descriptive geometry, geologic and topographic maps and cross-sections. Prerequisites: GEOL 105, 106; MATH 109 or approval of department head. Course fee \$25. Lab fee \$10.
- 313-4 Stratigraphy and Sedimentology. (3-3)** A study of the origin, transportation, and deposition of sediments and the formation of sedimentary rocks. Emphasis on the study of strata and depositional systems and the utilization of sedimentology and stratigraphy in economic geology, environmental geology, hydrogeology and petroleum geology. Prerequisites: GEOL 105, 106, 203. Course fee \$35. Lab fee, \$10.
- 314-3 Geochemistry. (2-3)** A survey of the application of chemical principles to problems of geology. Topics include the origin and distribution of the elements and exploration of the behavior and distribution of various elements in igneous, metamorphic, and sedimentary rocks. Basic concepts of thermodynamics, solution chemistry, and isotope geochemistry will be discussed. Credit for both GEOL 314 and CHEM 314 will not be awarded. Prerequisite: CHEM 108. Lab fee \$10.
- 320-3 Hydrogeology. (2-3).** Aquifer characteristics, physical principles of groundwater flow, well analysis, geologic controls on local and regional groundwater movement, water chemistry, groundwater pollution, legal issues in groundwater. Prerequisites: GEOL 105, CHEM 108, MATH 109, or approval of department head. Lab fee \$10.
- 405-3 Field Geology. (2-3)** An introduction to the identification and interpretation of rocks and geological structures in the field. Field and laboratory activities include rock identification and interpretation, surveying with plane table and alidade, measuring and describing geological sections and field mapping with Brunton compass, air photos, and topographic maps. Prerequisites: GEOL 105, 6 hrs upper level GEOL. Course fee \$50. Lab fee \$10.
- 411-3 Economic Geology. (2-3)** An introduction to the origin, classification, uses, and economics of metallic and nonmetallic mineral deposits. Lab will introduce reflected light microscopy, alteration petrology and simulate a complete mineral deposit exploration program. Prerequisite: GEOL 306 or concurrent enrollment. Lab fee \$10.
- 412-3 Subsurface Methods. (2-3)** An introduction to methods used to investigate the Earth's subsurface environment. Includes seismic reflection and refraction, gravity, magnetics, and electrical properties of the Earth. The course focuses on practical applications of these methods and advantages and limitations of each. Prerequisite: MATH 109. Lab fee, \$10. Course fee \$10.
- 486-v Problems. (Credit variable)** A course open to capable Geology and Earth Science students. Topics may vary according to student need. May be repeated for credit, subject to the approval of the department head. Prerequisite: Junior classification and approval of department head.
- 521-3 Environmental Field Techniques. (3-3)** Techniques and theory of field mapping and sampling will be addressed. Surveying, mapping techniques, geochemical sampling, and geotechnical testing will be practiced in the field. Lecture instruction will concentrate on accuracy and precision of field sampling/analysis and the interpretation of field data. Prerequisite: GEOL 510, or GEOL 106 and permission of the instructor. Lab fee \$10.

586-v Geology Problems. (Credit variable) Independent research under the supervision of an instructor. A formal report will be submitted to the instructor. A student may not count more than 6 hours of problems toward a degree.

GERMAN (GERM)

101-4 Beginning German. (3-2) (TCCNS = GERM 1411) Instruction and practice in understanding and speaking the German language with stress on sentence structure, inflections, vocabulary, and pronunciation. Lab fee \$5.

102-4 Intermediate German. (3-2) (TCCNS = GERM 1412) Instruction and practice in understanding and speaking the German language with increasing emphasis on reading and writing the language. Prerequisite: GERM 101 or equivalent. Lab fee \$5.

201-3 Composition and Reading. (3-0) (TCCNS = GERM 2311) Development of increased facility in the German language through reading, writing, and conversation. Prerequisite: GERM 102 or equivalent.

202-3 Composition and Reading. (3-0) Readings in either literary or technical German with emphasis on vocabulary building, writing, and translation skills. Prerequisite: GERM 102 or equivalent.

486-v Special Problems. (Credit variable) A course featuring independent reading, research, and discussion under personal direction of instructor. Topics vary according to student need. Open to students of senior classification or by approval of department head.

HEALTH (HLTH)

101-3 Wellness for Life. (2-2) (TCCNS = PHED 1338) The study of principles and techniques needed to promote human health and hygiene. Topics will include, but not be limited to: fitness assessment and skills; personal awareness and management techniques, self motivation, proper nutrition, responsibility, and health choices as they relate to wellness. Health related physical fitness laboratories for skills and strategies will be conducted. Lab fee \$5.

231-3 First Aid. (2-2) A course designed to provide an understanding of first aid and emergency procedures, including theory and practice, given to victims of accident and illness. Lab fee \$5.

351-3 Principles of Health and Fitness for Children. (3-0) A survey of the essential knowledge and skills of health and physical education as they relate to children ages 6-14. Included will be skills related to personal health and safety, physical fitness, motor development, games and sports, gymnastics, and rhythmic activities. Prerequisite: Junior classification or approval of department head.

HISTOLOGY TECHNICIAN (HLAB)

214-4 Introduction to Histotechnology. (3-3) Introduction to the healthcare environment and histology laboratory with emphasis on safety; infection control; mathematics; communication; medical terminology and ethical, legal and professional issues. Lab Fee \$15

215-4 Histotechnology I. (2-6) Histotechniques: Tissue Processing; Introduction to basic theories and practices of histotechnology including laboratory safety, fixation, tissue processing, embedding, microtomy, routine staining and operation and maintenance of lab equipment. Lab Fee \$15