

Course Descriptions and Symbols

Course Numbering

A four-digit number identifies each course. The following shows the meaning of each digit for the course number 1302.

- First digit-class level
- Second digit-number of credits

Last two digits—sequence in department offerings. Final digit may indicate the semester the course is offered. Spring semester courses end in even numbers and fall courses in odd numbers. The letters F (fall), S (spring), or SU (summer) at the end of each course description indicates the semester the course will be offered. Term suffixes, such as O or E indicate odd or even numbered years. Departments may offer courses not listed in the catalog. Such courses are labeled special topics (52 suffix), undergraduate research (88 suffix), and in writings and research (99 suffix).

Lower level courses

- 1000—freshman
- 2000—sophomore
- Upper level courses
- 3000—junior
- 4000—senior

Graduate courses

- 5000–6000

Symbols

- B—Offered both fall and spring each year
- CO—Corequisite
- D—Offered upon sufficient demand
- E—Offered every other year on even numbered years
- F—Offered each fall semester
- H—Honors Only
- M—Majors Only
- O—Offered every other year on odd numbered years
- PF—Pass/Fail
- PRE—Prerequisite
- S—Offered each spring semester
- SU—Offered each summer semester
- Y—Offered year round
- (3:1) Lecture hours per week: Lab hours per week

Direct Links to Course Prefixes

- [Accounting \(ACC\)](#)
- [Activity Courses \(ESS\)](#)
- [Aerospace Studies \(AES\)](#)
- [Agriculture \(AGR\)](#)
- [Agriculture Economics \(AEC\)](#)
- [Animal Science \(ANS\)](#)
- [Art \(ART\)](#)
- [Bible \(BIB\)](#)
- [Bible New Testament \(BNT\)](#)
- [Bible Old Testament \(BOT\)](#)
- [Biblical History \(BIH\)](#)
- [Biblical Languages \(BIL\)](#)
- [Biology \(BIO\)](#)
- [Business Administration \(BUA\)](#)
- [Chemistry \(CHE\)](#)

- [Children's Ministry \(CFM\)](#)
- [Communication \(COM\)](#)
- [Counseling \(COU\)](#)
- [Criminal Justice \(CRJ\)](#)
- [Digital Media Arts and Applications DMA\)](#)
- [Extra-Curricular Activity Courses \(ECA\)](#)
- [Economics \(ECO\)](#)
- [Education \(EDU\)](#)
- [Elementary Education \(EEL\)](#)
- [English \(ENG\)](#)
- [English as a Second Language \(ESL\)](#)
- [Exercise and Sport Sciences \(ESS\)](#)
- [Finance \(FIN\)](#)
- [Fine Arts \(AFA\)](#)
- [Foreign Languages \(FOL\)](#)
- [Geography \(GEG\)](#)
- [Government \(GOV\)](#)
- [Historical Theology \(HTH\)](#)
- [History \(HIS\)](#)
- [Honors \(HON\)](#)
- [Human Sciences \(HSC\)](#)
- [Humanities \(HUM\)](#)
- [Information Systems and Technology \(IST\)](#)
- [International Studies \(INT\)](#)
- [Leadership \(LEA\)](#)
- [Management \(MGT\)](#)
- [Mathematics \(MAT\)](#)
- [Military Science \(MIL\)](#)
- [Ministry \(MIN\)](#)
- [Missions \(MIS\)](#)
- [Music \(MUS\)](#)
- [Music Ensembles \(MUS\)](#)
- [Music Private Lessons \(MUS\)](#)
- [Natural Resources Ecology and Conservation \(NRC\)](#)
- [New Testament \(BNT\)](#)
- [Nursing \(NUR\)](#)
- [Old Testament \(BOT\)](#)
- [Organizational Management \(BOM\)](#)
- [Personal Financial Planning \(PFP\)](#)
- [Philosophy \(PHI\)](#)
- [Physics \(PHY\)](#)
- [Psychology \(PSY\)](#)
- [Reading \(REA\)](#)
- [Religion and Theology \(REL\)](#)
- [Secondary Education \(EDS\)](#)
- [Sociology \(SOC\)](#)
- [Social Work \(SWK\)](#)
- [Special Education \(ESP\)](#)
- [Theater Arts \(THA\)](#)
- [Undergraduate Research \(UGR\)](#)
- [University Studies \(UNI\)](#)
- [Washington Internship \(WSH\)](#)
- [Youth and Family Ministry \(YFM\)](#)

(ACC) Accounting

2301 Principles of Financial Accounting. Measuring business transactions; financial statements, reporting, and analysis; accounting information systems, financial performance measures. F

- 2302 Principles of Managerial Accounting. Cost concepts and cost allocation; job order and process costing; activity-based systems; budgeting and cost behavior analysis; performance measurement and decision making. PRE: ACC 2301. S
- 3301 Intermediate Accounting I. Accounting environment; accounting process; financial statements; analysis of asset and liability elements. PRE: ACC 2302. F
- 3302 Intermediate Accounting II. Continuation of 3301. Analysis of stockholder equity elements; error and financial statement analysis. PRE: ACC 3301. S
- 3303 Cost Accounting. Cost concepts, behavior, and accounting techniques. Cost determination and decision making are emphasized. PRE: ACC 2302. F
- 3305 Special Problems in Accounting. Complex accounting applications. PRE: ACC 3302. F
- 3320 Business Ethics for Accountants. Examines various theories of ethics, stressing Christian ethics in an accounting context. PRE: ACC 2302. S
- 4301 Consolidations. Advanced accounting course dealing with financial accounting and reporting in the area of business combinations. PRE: ACC 3301. F
- 4305 Income Tax I. Study of federal income tax laws as they affect individuals. Emphasis on application of income tax theory. PRE: ACC 2302. F
- 4306 Income Tax II. Corporations, partnerships, trusts, estates, and gifts. PRE: ACC 4305. D
- 4308 Auditing. Auditing concepts, standards, and objectives; auditing procedures; sampling techniques; internal control evaluation; the audit report. PRE: ACC 3301. S
- 4309 Estate Taxation. Federal taxation of estates, trusts, and estate planning. PRE: ACC 4305. D
- 4310 Accounting Systems. Theories, techniques, and procedures of accounting information systems for organizations. PRE: ACC 2302. D
- 4315 Financial Statement Analysis. Advanced study of financial topics specifically related to financial statements used primarily for making decisions to invest in business. Includes analysis of financial statements focusing on ratio, comparative and trend analysis, certain valuation concepts, and company comparisons. PRE: FIN 3300. D
- 4330 Internship. Work in an area of business utilizing skills developed in the accounting program. PRE: Minimum of 12 upper level hours in accounting and approval of the instructor. D
- 5301 Accounting Research. Accounting research using professional and scholarly literature of accounting. D
- 5304 Governmental Accounting. Accounting for governmental and nonprofit entities. PRE: ACC 2302. S

(AEC) Agriculture Economics

- 3304 Farm and Ranch Management. Economic and business principles applied for more profitable operation. D
- 3312 Natural Resources Economics. Integrated study of economic impacts of natural resources and private or political decisions that affect their uses. Focuses on local and regional case studies. Study of classical issues related to renewable and non-renewable resources as well as conservation and public policy concerns. SE
- 3315 Agricultural Policy. Governmental policy relative to farm programs, resource conservation, foreign trade, and rural development. FO
- 4314 Agriculture Finance and Credit. Principles of agricultural finance emphasizing cost and return from use of capital and credit, types and sources of credit and role of agricultural lending institutions. PRE: AEC 2303. FO

(AES) Aerospace Studies

- 1105 Foundations of the United States Air Force I. Survey course that deals with the mission, organization, and function of the American military, especially as it applies to the United States Air Force.

1106 Foundations of the United States Air Force II. Survey course that deals with the Air Force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces and aerospace support forces.

2103, 2104 The Evolution of USAF Air and Space Power I and II. Survey course designed to examine general aspects of air and space power through a historical perspective. Historical examples are provided to analyze the development of the Air Force capabilities and missions as well as to demonstrate the evolution of today's air and space power. Students also focus on basic verbal and written communication skills and USAF core values.

3305 Air Force Leadership Studies I. Introductory management course emphasizing the individual as a manager in the Air Force. Individual motivation and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer's professional skills as an Air Force leader. PRE: Acceptance into Professional Officer Course.

3306 Air Force Leadership Studies II. Leadership theory and management practice are amplified through study of management of forces in change, organizational power, managerial strategy and tactics, and leadership ethics. PRE: Acceptance into Professional Officer Course.

4303, 4304 National Security Affairs and Preparation for Active Duty I and II. Examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to the refinement of communication skills. PRE: Acceptance into Professional Officer Course.

(AFA) Fine Arts

2350 Introduction to Fine Arts. Interdisciplinary course designed to introduce the student to basic elements of art, music, and theatre. Taught as a team effort by the music, theatre, and art departments. F

(AGR) Agriculture

1304 Principles of Soil Science. Study of the nature and properties of soils, including classification, physical properties, ecology of the soil, soil fertility, and soil conservation principles and practices. SE

4102 Agricultural Literature and Seminar. Reading assignments, current agricultural information, informal discussions, oral and/or written reports on pertinent agriculture topics. S

(ANS) Animal Science

1303 Principles of Animal Science. Study of the modern field of animal agriculture. Emphasis on breeding, feeding, management, and marketing. (2:3) F

3303 Feeds and Feeding. Study of the principles of animal nutrition with an emphasis on feeding food animal species. Covers livestock nutritional requirements, protein and energy rations, the importance of micro and macro nutrients for livestock, nutritional diseases, and recent discoveries in nutritional research. Economy in feeding is emphasized. PRE: CHE 2402 or concurrent enrollment. FO

3314 Physiology of Farm Animals. Study of the physiological systems of animals including growth and development. S

3323 Physiology of Reproduction. Study of the reproductive processes in domestic animals with emphasis on male and female anatomy, endocrinology, estrous cycles, and fertilization. F

3403 Advanced Feeds and Nutrition. Chemical composition of foodstuffs; digestion, absorption, metabolism of nutrients and calculation of rations. S

4313 Concepts in Animal Health and Disease. Detailed study of the epidemiology and pathophysiology of diseases on domestic and wild animals. Major emphasis is placed on identification of risk factors, prevention, transmission, immunity and resistance, and pathogenesis of emerging and economically important animal diseases. SE

4324 Advanced Animal Nutrition. Biochemical and physiological bases for nutritional requirements of domestic animals. PRE: ANS 3403. SE

4330 Animal Science Practicum. Opportunity to visit selected livestock operations in the southwest. PRE: Junior standing and advisor approval. Travel fees. D

(ART) Art

1303 Drawing I. Introductory studio course in drawing with attention to black and white media. Attention to development of self-expressive communication and composition in drawing through the use of line, texture, value, space and perspective. F

1304 Drawing II. Further development of self-expressive communication and composition through drawing with emphasis on color media. PRE: 1303 S

1305 Two-Dimensional Design. Introduction to the role of formalist design in art and visual media, with emphasis on two dimensional works. Studio activities explore elements and principles of design and composition. B

2000 Portfolio Review in Art. Faculty review of professional standards portfolio presentation for students in Bachelor of Fine Arts program. Students will be mentored in abilities, future academic plans, career interests, and provided direction and focus prior to continuing to upper level courses. Course required for Art majors upon completion of 15 hours of Art and/or Digital Media Arts coursework. Should be taken prior to junior year. D

2306 Life Drawing. Studio-based introduction to drawing the human figure using a variety of black and white and color drawing media. Drawing of live models and other figurative resources. PRE: ART 1304. FO

2307 Survey of Art History I. Survey of art history from prehistory to the 14th Century. Outside research required. F

2308 Survey of Art History II. Survey of Western painting, sculpture, architecture, and other arts from the 15th Century to the present. Outside research required. S

2310 Ceramics. Studio course in ceramics techniques, including hand-building and wheel-throwing approaches. Fee: \$120. SO

2311 Typography. Exploration of typographic structures, terminology and methods as a tool for visual problem solving. This studio course uses both hands-on and computer methods to address the language of type and its effective usage in design. Study of the language of type, its history and application, and attainment of working knowledge of this essential element to graphic design. PRE: ART 1305. D

2312 Three-Dimensional Design. Studio experiences and discussion to develop the use of elements and principles of design, composition, and visual expression through three-dimensional forms. A lab fee may be collected for materials as needed. PRE: ART 1305. SE

2316 Painting I. Introduction to painting that emphasizes visual self-expression/communication through basic techniques. PRE: ART 1303 or 1305. S

3303 Curriculum and Assessment in K-12 Art. Studies issues related to curriculum in the K-12 art class, including national and state level standards for visual arts, children's development in art, scope and sequence in curriculum design, budget and art materials, inclusion of learners with special needs, professional standards, and development of course objectives and assessment. PRE: Junior Status. SO

3304 Painting II. Studio-based continuation of methods and concepts learned in Painting I, with water-media, including acrylic and watercolor. Continued development of perceptual awareness, rendering, composition, and creative problem solving through study that may include still-life, figure, landscape, and abstract/conceptual subjects. PRE: ART 2316. S

3305 History of Modern Art. Study of Western art history and theory from the late 19th century through the early 21st century, including developments in avant-garde Modernism, and Post-Modernism. Examines critical subtexts and cultural milieu that influenced the transformation of Modern art. Outside research required. Satisfies general core fine arts history requirement. PRE: Sophomore standing. S

3306 Art and Children. Studies and activities to promote creative art expression for children with an emphasis on current trends in art education. B

3309 Painting III. Studio course that builds on methods and concepts learned in Painting I and II, with a concentration in oil-based media. Continued development of perceptual awareness, rendering, composition, and creative problem solving through study that may include still-life, figure, landscape, and abstract/conceptual subjects. PRE: ART 2316. S

- 3310 Printmaking. Studio course in printmaking techniques with focus on stenciling and relief printing. FE
- 3326 Sculpture. Study of tools and materials related to creation of art in three dimensions. Survey of primary sculptural techniques of addition, subtraction, substitution, and manipulation. PRE: ART 2312. D
- 4302 History of Art in the United States. Native American art, art during Colonial period through contemporary American artists. Emphasizes religious, political, economic, racial and other cultural contexts as reflected in period art. Satisfies general core fine arts history requirement. PRE: Sophomore standing. F
- 4303 Professional Practice and Special Problems in Drawing. Advanced drawing course where students work individually and in groups toward concept and skill development in drawing. Students develop a singular theme for visual exploration, completing work in keeping with three credit hours of senior level studio work. Students learn professional practice of arts including portfolio development, photography of work, gallery installation standards, and professional development. PRE: Junior status and ART 1303, 1304, and 2306. D
- 4304 Professional Practice and Special Problems in Painting. Advanced painting course where students work individually and in groups toward concept and skill development in painting media. Students develop a singular theme for visual exploration, completing work in keeping with three credit hours of senior level studio work. Students learn professional practice of arts including portfolio development, photography of work, gallery installation standards, and professional development. PRE: Junior status and ART 2316 and ART 3304 or 3309. D
- 4305 Contemporary Issues in Art Education. Designed for all-level art education majors, studies contemporary issues relating to unique setting and practice of visual arts education in the K-12 classroom. Includes topics related to visual culture, including difference, arts education policy, art in public spaces, application of art theory to pedagogy, and professional development and practices. PRE: Junior status. SE
- 4308 Art Theory and Criticism. Explorations in criticism and the theories that have shaped and/or responded to Modern and Post-modern art. Outside research required. S
- 4360 Senior Seminar. Independent or class study in selected area with departmental approval required. May be repeated for credit with different emphasis. D

(BIB) Bible

- 1010 Introduction to the Old Testament Supplement. Supplement to BIB 1310, for Bible majors who did not take BIB 1312 and have received credit for BIB 1310. Includes reading and writing designed to introduce the student to a critical introduction to the Old Testament. B
- 1020 Introduction to the New Testament Supplement. Supplement to BIB 1320, for Bible majors who did not take BIB 1322 and have received credit for BIB 1320. Includes reading and writing designed to introduce the student to a critical introduction to the New Testament. B
- 1310 Introduction to the Old Testament. Introduction to the Old Testament with careful attention given to God's covenant relationship with Israel. B
- 1312 Introduction to the Old Testament for Majors. Introduction to the Old Testament for majors with careful attention given to God's covenant relationship with Israel. Fee \$210. F
- 1320 Introduction to the New Testament. Introduction to the New Testament with careful attention given to the life and teachings of Jesus. B
- 1322 Introduction to the New Testament for Majors. Introduction to the New Testament for majors with careful attention given to the life and teachings of Jesus. Fee \$210. S
- 2302 Interpretation: Hermeneutics. Study of the art of interpretation and implementation of a proper exegesis of a specific biblical text. Introduction to tools of biblical research. Fee \$210. F
- 2303 Interpretation: Homiletics. Study of the art of preaching and its application to biblical text. Fee \$210. S
- 2310 Vocation and Life (H). Investigations into the nature of Christian living, with specific attention to an understanding of vocatio or calling. Integrates biblical and theological teaching regarding meaning and purpose, virtue and profession, with

contemporary issues and topics. F

3300 Romans. Exegetical study of Paul's epistle with significant attention to Paul's theology and pastoral directives for the Roman church. A section is offered in the fall for majors only. F

3303 Old Testament Seminar (H). Examines Old Testament, with an emphasis on themes, history, literary structure, and sociology of biblical texts and periods. Specific courses may vary according to professor specialization or research interest. S

3305 Christian Heritage. Introduction to the historical and theological developments of the Christian church from the earliest days as recorded in the book of Acts to the present. B

3310 Christian Life. Integrate previous biblical studies instruction under praxis, textual studies, and service components. B

3312 The Nature of Scripture. Surveys the history of interpretive methods used in the study of scripture from pre-Christian Judaism through the present and explores ministerial and personal questions of faith that arise from a study of historical-critical methods, textual criticism, and canon formation. PRE: C in BIB 2302 or permission of instructor. S

4090 Practicum. Supervised internship in student area of ministry, culminating in a final, written report. Recommended for summer completion with fall enrollment. F

4302 Preaching Biblical Genres. Application of varied preaching forms to a selected biblical book or genres. PRE: BIB 2303. S

4311 Advanced Biblical Interpretation. Advanced studies in various areas of biblical interpretation. The specific semester emphasis, such as narrative exegesis, the Bible as literature, rhetorical criticism, and post-modern interpretation, will be reflected on the transcripts. Students may take the course only once. PRE: BIB 2302 and 2303. F

4360 Bible Department Capstone. Supervised research project in student area of specialization, culminating in a final, written thesis. This course, together with the Practicum, represents the culmination of coursework. S

6300 Introduction to Graduate Studies. Introduces graduate students to the expectations of research, writing, and ministry implications associated with the rigors of a master's degree. Students who transfer at least 12 hours of graduate studies with a GPA of at least 2.75 may substitute another class for this offering. B

6301 Introduction to the New Testament. Advanced introduction to the New Testament for exegetical and homiletic purposes with emphasis on the historical, literary, and theological dimensions of the text. D

6302 Hermeneutics. Study of the history of the application of hermeneutics to the biblical text with an emphasis on the current questions in biblical interpretation. FO

6305 Studies in the New Testament Text. Critical study and analysis of a selected New Testament book or genres for exegesis. Students may take each book or genre only one time. D

6306 New Testament Theology. Study of the doctrinal teachings presented in the New Testament. D

6307 Preaching Biblical Genres. Application of varied preaching forms to a selected book or genres of the Bible. D

6308 Studies in the Old Testament Text. Critical study and analysis of a selected Old Testament book or genre for exegesis. Students may take each book or genre one time. D

6309 Social World of Christianity. Exploration into the environment in which Christianity arose and spread. The history, daily life, and institutions of the period will be examined in conjunction with relevant New Testament texts. D

6310 Introduction to the Old Testament. Advanced introduction to the Old Testament designed for exegesis and preaching with an emphasis on the historical, literary, and theological dimensions of the text. D

6313 Biblical Archaeology. Dynamics of the interplay of history, religion, and culture of the Near Middle East through an archaeological lens. Students encounter concepts of worldview, morality, religion, and culture. D

6314 Social Perspectives of the Old Testament. Exploration into the environment in which the Old Testament texts were written. The history, daily life, and institutions of the periods will be examined in conjunction with Old Testament texts. D

(BIH) Biblical History

6327 History of Christianity. Introduction to and survey of the history of Christianity, with an emphasis in the social, historical, and religious factors that influenced the formation of various groups and teachings. D

6329 American Church History. Survey of American church history focusing on the Restoration Movement, with an emphasis on the key personalities, teachings, and development of this period. D

(BIL) Biblical Languages

2311 Elementary Greek I. Elementary study of the grammar, syntax, and vocabulary of the Greek New Testament. F

2322 Elementary Greek II. Further elementary study of the grammar, syntax, and vocabulary of the Greek New Testament. PRE: BIL 2311. S

3313 Elementary Hebrew I. Elementary study of the grammar, syntax, and vocabulary of the Hebrew Bible. FD

3324 Elementary Hebrew II. Further elementary study of the grammar, syntax, and vocabulary of the Hebrew Bible. PRE: BIL 3313. SD

3331 Intermediate Greek I. Intermediate study of the grammar, syntax, and vocabulary of the Greek New Testament. PRE: BIL 2322. F

3342 Intermediate Greek II. Further intermediate study of the grammar, syntax, and vocabulary of the Greek New Testament. PRE: BIL 3331. S

4336 Intermediate Hebrew I. Intermediate study of the grammar, syntax, and vocabulary of the Hebrew Bible. PRE: BIL 3324. FD

4345 Intermediate Hebrew II. Further intermediate study of the grammar, syntax, and vocabulary of the Hebrew Bible. PRE: BIL 4336. SD

4351 Advanced Greek I. Advanced study of the grammar, syntax, and vocabulary of the Greek New Testament. PRE: BIL 3342. D

4357 Advanced Hebrew I. Advanced study of the grammar, syntax, and vocabulary of the Hebrew Bible. PRE: BIL 4345. D

4362 Advanced Greek II. Exegesis, with attention to advanced grammar, semantics, and textual criticism. PRE: BIL 4351. SD

4367 Advanced Hebrew II. Exegesis, with attention to advanced grammar, Hebrew poetry, and textual criticism. PRE: BIL 4357. D

6311 Elementary Greek I. Introduction to Greek grammar and vocabulary. FE

6312 Elementary Greek II. Greek grammar with an emphasis on reading in the New Testament. SO

6314 Elementary Hebrew I. Introduction to Hebrew grammar and vocabulary. FO

6315 Elementary Hebrew II. Hebrew grammar with an emphasis on reading in the Old Testament. SE

(BIO) Biology

1300 Human Biology. Survey of human systems with an emphasis on integration of activities and heredity. No lab. Not for science majors. B

1303 Integrated Science I. Introduction to earth science and its relationship to the planets in the solar system, composition and atmosphere. Not for science majors. (2:3) F

1304 Integrated Science II. Study of matter and energy types and transformations. Includes a section on the relationship of plants and plant life to energy changes. Not for science majors. (2:3) S

1305 Contemporary Investigations in Biology. Contemporary issues in biology from evolution to genetics to ecology and ecosystem levels of biological organization. B

- 1405 Majors Biology I. Fundamentals of molecular biology, cell biology, and genetics. PRE: High school biology. (3:3) F
- 1406 Majors Biology II. Fundamentals of organization of both plants and animals, including biological diversity and interdependence. (3:3) S
- 2401 Human Anatomy and Physiology I. Structure and function of cells, tissues, and the general body plan; the integument, skeletal, and muscular systems. (3:3) F
- 2402 Human Anatomy and Physiology II. Continuation of BIO 2401. Structure and function of the endocrine, circulatory, respiratory, digestive, excretory, and nervous systems, as well as a study of fluid, electrolyte and Ph balance of the body. (3:3) S
- 3111 Microbiology Lab. Lab to be taken concurrently with BIO 3310. For science majors only. B
- 3300 Genetics. Principles of inheritance from both a classical and molecular perspective. PRE: BIO 1405. S
- 3301 Introductory Genetics. Overview of the principles of inheritance for nursing majors. B
- 3303 Cell and Molecular Biology. Structure and functions of the cell. PRE: CHE 1305 or consent of instructor. (2:3) F
- 3304 Advanced Botany. Survey of the plant kingdom. Classification, structure, function and development are emphasized. (2:3) F
- 3305 Advanced Zoology. Survey of the animal kingdom. Classification, structure, function and development are emphasized. (2:3) S
- 3310 General Microbiology. Characteristics of microorganisms, their culture, uses, control and immunological aspects in industrial, domestic, and medical areas. Concurrent registration in the complementary laboratory course is required. PRE: CHE 1305 or 1307; BIO 1405 and 1406 or BIO 2401 and 2402. B
- 3314 Physiology of Reproduction. Study of the reproductive processes in domestic animals. Emphasis on male and female anatomy, endocrinology, spermatogenesis, fertilization, parturition, reproductive cyclicity, and reproductive behavior. F
- 3320 Analytical Biotechnology. Introduction to laboratory techniques and analysis used in biochemistry. Topics include gel electrophoresis, acrylamide electrophoresis, restriction enzyme digestion, transformation of cells, purification and analysis of DNA, protein purification, PCR, and bioinformatics. Laboratory exercises reinforce scientific method, lab safety, importance of laboratory notebooks, applied problem solving, and the fundamentals of instrumentation. (1:6) S
- 3322 Nutrition. Study of nutrients, their functions and food sources, recommended daily allowances, deficiency and toxicity symptoms, and sound principles for nutrition throughout the life cycle. B
- 3325 General Entomology. Introduction to entomology, including the biology and diversity of insects and an introduction to management of insect pests of man, animals and plants. (2:3) D
- 3406 Comparative Vertebrate Anatomy. Study of vertebrate structure with emphasis on comparison of organ systems. Representative forms will be used in the laboratory. PRE: BIO 2401 and 2402 or consent of instructor. (2:3) FO
- 4102 Biological Literature and Seminar. Review of classical and recent biological literature with both oral and written presentations required. PRE: Senior standing and 9 advanced hours in BIO. S
- 4112 Animal Physiology Lab. Animal physiology lab. CO: BIO 4312. S
- 4303 Evolution. History, evidences, and theories of the origin and development of living organisms. PRE: 6 hours of science. F
- 4312 Animal Physiology. Functions of animal systems with emphasis on digestion, respiration, circulation and endocrinology. CO: BIO 4112. S
- 4318 Biometrics. Introduction to statistics with primary emphasis on the biological and agricultural disciplines. Foundational principles of statistical theory and application including terminology, graphing, probability distributions, correlation, regression, experimental design, and statistical inference are covered. SE

4324 Embryology. Stages in development and the control of these processes with emphasis on the vertebrates. (2:3) SO

(BNT) New Testament

3303 General Writings. Intermediate studies of Hebrews, James, 1 Peter, 2 Peter, 1 John, 2 John, 3 John, Jude, and/or Revelation. Specific topics will appear on the transcript. FO

3306 Paul's Epistles. Intermediate studies of 1 Corinthians, 2 Corinthians, Galatians, Ephesians, Philippians, Colossians, 1 Thessalonians, 2 Thessalonians, 1 Timothy, 2 Timothy, Titus, and/or Philemon. Specific semester topics will appear on the transcript. FE

4304 Acts. Advanced studies in the book of Acts. SE

4305 Synoptic Gospels. Advanced studies in Matthew, Mark, and/or Luke. Specific semester topics will appear on the transcript. SO

(BOT) Old Testament

3303 Poetry and Wisdom. Intermediate studies in Job, Psalms, Proverbs, Ecclesiastes, Song of Solomon, and/or Lamentations. Specific semester topics will appear on the transcript. FO

3304 Historical Books. Intermediate studies in Joshua, Judges, Ruth, 1 Samuel, 2 Samuel, 1 Kings, 2 Kings, 1 Chronicles, 2 Chronicles, Ezra, Nehemiah, and/or Esther. Specific semester topics will appear on the transcript. SE

3305 Minor Prophets. Intermediate studies in Hosea, Joel, Amos, Obadiah, Jonah, Micah, Nahum, Habakkuk, Zephaniah, Haggai, Zechariah, and/or Malachi. Specific semester topics will appear on the transcript. SO

4306 Old Testament Law. Advanced studies in Genesis, Exodus, Leviticus, Number, and/or Deuteronomy. Specific semester topics will appear on the transcript. PRE: BIB 3312 or permission of instructor. FE

4307 Major Prophets. Advanced studies in Isaiah, Jeremiah, Ezekiel, and/or Daniel. Specific semester topics will appear on the transcript. D

(BUA) Business Administration

1300 Introduction to Business. Survey of the nature of business and its relationship to society. Designed for beginning freshmen and students with no more than 6 hours of business administration courses. F

2199 Free Enterprise. Students in Free Enterprise participate in projects, attend competitions, and make presentations. F

2299 Free Enterprise. A continuation of BUA 2199. S

2310 Business Statistics. Collection, presentation, analysis, and interpretation of statistics applicable to business. PRE: MAT 1311. B

3302 Case Study Analysis. Case study approach to identifying and solving problems in organizations. D

3305 Principles of Marketing. Current trends in marketing conditions, marketing agencies, factors affecting buying. F

3306 Consumer Behavior. Buying decision process and factors affecting buying behavior. Development of effective marketing strategy and tactics by understanding how and why consumers respond to marketing stimuli. PRE: BUA 3305. S

3310 Money and Banking. Organization and operation of commercial banks and the money market. Examination of central banking and monetary policy. PRE: ECO 2301. B

3320 Business Ethics. Examine various theories of ethics, stressing Christian ethics in a business context. Special emphasis on current topics in business ethics. Fee \$65. B

4199 Leadership in Free Enterprise. Leadership role in Enactus student organization. Identifying and initiating projects in free enterprise, recruitment of new team members, organizing team, and encouraging participation. Readings and other assignments are assigned to develop competencies in planning, leading, organizing, and controlling and their application

to leadership in organizations. PRE: BUA 2299 and permission of Enactus coordinator. F

4299 Leadership in Free Enterprise. Continuation of BUA 4199. PRE: BUA 4199 and permission of Enactus coordinator. S

4300 Personal Selling and Sales Promotion. Selling and negotiating and sales promotion as related to new enterprise and ongoing firm. Promotional strategies especially for small business where uniqueness of promotional tools is more critical than in large businesses. PRE: Junior standing. D

4301 Business Law. Introduction to the law stressing contracts, negotiable instruments, agencies, mortgages, personal property, real property, and business organization. B

4304 Marketing Research. Research methods and techniques that aid marketing management and the application of these tools to the process of obtaining information upon which to base marketing strategy. PRE: BUA 2310 and 3305. D

4320 Leadership. Examines values-based leadership principles. Fee \$100. B

4330 Internship. Work in an area of business utilizing skill developed in the Business program. PRE: Senior standing and approval of the instructor. Y

4380 Business Policy. Integrative course focusing on an organization's pursuit of superior economic performance over a long term by deciding what business to be in and how to compete. This is a capstone course restricted to graduating seniors only. B

(CFM) Children's Ministry

2311 Foundations of Children, Youth and Family Ministry. Introduces students to the world of children, youth and family ministry and contemporary influences on, and ways to approach, ever-changing youth culture. F

2326 Practice of Children and Family Ministry. Explores pragmatic side of ministry to children and their families by considering strategic issues of program management, faith development in children, ministry to self, and other issues leading to the development of effective ministers to children and their families. S

3301 Children's Spiritual Formation. Study and consideration of the spiritual formation of children in light of theological, psychological, sociological, and cultural realities. Considers attention to diversity and children with special needs, inter-generational ministry, equipping parents, and age-appropriate spiritual disciplines. FO

3302 Methods for Children's Spiritual Formation. Development of skills necessary to choose and implement programs and curriculum, develop teaching strategies to support spiritual formation of children within the church and home, and equip volunteers. SE

4090 Practicum. Supervised internship in student area of ministry, culminating in a final, written report. Recommended for summer completion with fall enrollment. F

(CHE) Chemistry

1105 Inorganic Chemistry Lab. CO: CHE 1305. Fee \$50. F, SU

1107 General Chemistry Lab I. CO: CHE 1307. Fee \$50. B

1108 General Chemistry Lab II. CO: CHE 1308. Fee \$50. B

1305 Inorganic Chemistry. Inorganic chemistry for pre-nursing, human science, non-science majors. CO: CHE 1105. F, SU

1307 General Chemistry I. Introduction to chemistry for students majoring in science. Includes gas laws, bonding theory, atomic structure, solutions, acid-base and redox reactions. PRE: CHE1305 or high school chemistry. CO: CHE 1107. F

1308 General Chemistry II. Continuation of CHE 1307, including basic inorganic chemistry, aqueous reactions, rates, equilibrium, nuclear and some descriptive chemistry. PRE: CHE 1307. CO: CHE 1108. S

2402 Integrated Organic and Biochemistry. Organic and biochemistry for agriculture, nutrition, pre-nursing and education majors. Emphasis is on nomenclature, major functional groups and reactions of organic and biochemical. Not intended for chemistry or biology majors. PRE: CHE 1305, 1105. S

3101 Organic Chemistry I Lab. Practice in basic operations and preparations of organic chemistry using micro lab ware. CO: CHE 3301. Fee \$50. F

3102 Organic Chemistry II Lab. Additional organic chemistry preparations, functional group reactions, and identification of unknowns using traditional means, IR, and NMR spectra. CO: CHE 3302. Fee \$50. S

3105 Analytical Chemistry I Lab. Practice in analytical chemistry with an emphasis on wet methods,; gravimetric, titrimetric and potentiometric analyses. PRE: CHE 1308. CO: CHE 3305. FO

3181, 4182 Undergraduate Research. Research in chemistry, where students complete a minimum of 180 hours, 12 hours a week for a 15 week term, work in the Biochemistry Research Laboratory in order to receive this credit. A paper summarizing the work, written in an appropriate journal style will be submitted by each student to the Research Supervisor/Course Instructor. May be taken up to four terms for a total of 4 credit hours of undergraduate research. PRE: Prior consent of Research Supervisor. B

3310 Laboratory Management and Demonstrations. Equips students to equip and organize a stockroom, conduct laboratory sessions with groups, and to safely and effectively use demonstrations. S

3301 Organic Chemistry I. Hydrocarbons, stereochemistry, and organometallics. PRE: CHE 1308. CO: CHE 3101. F

3302 Organic Chemistry II. Continuation of 3301 with other organic series, NMR, IR. PRE: CHE 3301. CO: CHE 3102. S

3305 Analytical Chemistry I. Quantitative chemical analysis by gravimetric and volumetric methods. PRE: CHE 1308. CO: CHE 3105. FO

3307 Advanced Instrumentation and Laboratory Methods. Study in the use of spectroscopic, spectrophotometric and chromatographic instruments in chemical analyses and the chemistry behind the instruments. S

3320 Analytical Biotechnology. Introduction to laboratory techniques and analysis used in biochemistry. Topics include gel electrophoresis, acrylamide electrophoresis, restriction enzyme digestion, transformation of cells, purification and analysis of DNA, protein purification, PCR, and bioinformatics. Laboratory exercises reinforce scientific method, lab safety, importance of laboratory notebooks, applied problem solving, and fundamentals of instrumentation. PRE: CHE 3301 or CHE 2402. (1:6) D

3406 Analytical Chemistry II. Analysis by instrumental methods: spectroscopic, electrical, and chromatographic. (2:6) SE

4102 Chemical Literature and Seminar. Emphasizes acquaintance with chemical literature and how to make a literature search. Includes research projects and a research paper. D

4123 Physical Chemistry Lab I. Practice in physical chemistry where the experiments emphasize thermodynamics and kinetics. CO: CHE 4323. FE

4311 Biochemistry I. Structure and properties of proteins, enzymes, carbohydrates, lipids, bioenergetics, and intermediary metabolism. PRE: CHE 3301 or concurrent. CO: CHE 4111. F

4312 Biochemistry II. Nucleic acids, protein synthesis, nutrition, the immune system, drug metabolism, and hormones. CO: CHE 4112. S

4323 Physical Chemistry I. Introduction to theoretical chemistry. Gas properties, thermodynamics, equilibrium, and electrochemistry. PRE: CHE 1308 and MAT 1402 or concurrent. CO: CHE 4123. FE

4424 Physical Chemistry II. Quantum mechanics, kinetics, spectroscopy. (3:3) SO

(COM) Communication

1100,2100,3100,4100 Electronic Activity Lab. Involvement in various productions assisting in setup, running, and post production activities for video and audio at university games, productions, and chapel. May be repeated for credit. B

1101,2101 Yearbook Lab. Study and practice of fundamental principles of yearbook reporting such as photography, layout, and reporting. Students participate in the production of the campus yearbook. B

1105,2105 News Lab. Study and practice of fundamental principles of news gathering and reporting. Students participate in

the production of the campus news. B

1351 Principles of Mass Media. Introduction to mass media and the major issues that influence media. The course will be predominantly a discussion of these major issues, such as freedom of the press, and how issues influence the journalist and society. F

2303 Principles of Announcing. Fundamentals of announcing theory focusing on clear diction, delivery style, and thematic elements of production. Students will produce audition tape for submission to industry. F

2311 Introduction to Public Address. Introduction to the basic theories of public speaking. An emphasis is placed on delivery skills and communication apprehension. Students learn to prepare and deliver informative and persuasive speeches in an appropriate manner. D

2312 UIL Events. Study of University Interscholastic League (UIL) speech events. Debate, oral interpretation, prose and poetry are among the events examined. Emphasis is placed on coaching and judging the events at the high school level. SE

2340 Communication for the Professional. Professional communication situations relevant to student field. B

2348 Communication Theory. Introduction to formal research methods within the field and examination of quantitative and qualitative empirical techniques. F

2351 Introduction to Public Relations. Introduction to basic principles and trends of current public relations theories and practices and the workings of mass media. F

3301 Sports Writing and Reporting. Study of traditional storytelling formats with special instruction in sports style, interviewing techniques, research strategies, sports law, sports and new media, and issues of race and gender. F

3310 Systems in Organizational Communication. Systems approach to communication principles applied to managerial situations. D

3313 Interpersonal Communication. Study of the human communication process in one to one encounters. SO

3331 Television Production. Study of basic aspects of live television production, including on-camera performance, and studio work such as control room fundamentals, operation of video cameras, audio, and directing. S

3342 Communication and Life Work (H). Analysis of political speaking and social movements in relation to ancient and contemporary communication theory. S

3343 News Reporting. Fundamental principles of news gathering and reporting. Focuses on ethical standards of journalism and modern practices of reporting in a convergent media environment. Practical applications for print, video, and audio reporting across variety of electronic media platform. F

3350 Worship Media Production. Examines various issues, including song presentation software, media clips, copyright law, and use of live video in worship. Particular emphasis is placed on utilizing media to enhance worship and coordinating themed services. S

3354 Advertising. Study of mass media advertising, its selection and evaluation, including discussion of advertising theory, tactics and creativity. S

3371 Group Communication. Study of group behavior, participation, structure, leadership and the importance of group discussion to our society. F

3372 Intercultural Communication. Study of communication between peoples of various cultures and the issues that enhance and impede effective cross-cultural communication. SE

3374 Nonverbal Communication. Study of the various types of nonverbal behavior, as well as an examination of nonverbal issues such as deception, compliance gaining, and communicator competence. S

4330 Communication Internship. Communication experience in local business context under the direction and supervision of management and faculty. Internship requires 90 hours of field placement. PRE: COM 4374. B

4321 Advanced Public Speaking and Rhetorical Analysis. Study of persuasion and rhetorical appeals through public speaking. Learning objectives include the rhetoric of messages in the public delivery forum, as well as presenting and improving the delivery of speeches. SE

4341 Communication and Conflict. Focus on the nature of conflict in various setting; interpersonal, intercultural, organizational, and group. Communication strategies and theories are examined at each level. SO

4345 Introduction to Rhetorical Analysis. Examination of the theoretical elements of rhetorical theory, including an analysis and critique of contemporary artifacts. FO

4372 Organizational Communication. Study of communication networks found in various business, industrial, educational, and social organizations. S

4374 Persuasive Communication. Study of the psychological and rhetorical principles employed in contemporary, social, political, and advertising campaigns. FE

5301 Communication in Organizations. Study of communication networks and styles operating in organizations, especially educational institutions, as well as the role of the professional educator in those structures. D

(COU) Counseling

5000 Professional Development Group. Explores how counseling issues and interactions may impact counselors on a personal level. Students engage in structural activities and participate in video conferences. Y

5091, 5092, 5093 Practicum Extension. Counseling experience involving integration of didactic and clinical material in the supervised practice of individual, group, marital, and family therapy. Weekly group and individual supervision sessions are included. PRE: Approval of program director. Fee for each: \$1164. Y

5141 Christian Worldview in Counseling. Examination of the impact of a Christian worldview on individual and family beliefs, interaction, and structure. Consideration will be given to the role of a Christian worldview in counseling. Y

5310 Individual and Family Lifespan Human Development. Examines the stages of individual development as they occur in the context of the family life cycle. Consideration will be given to how various tasks, transitions, and events impact individuals and families at different stages of life. Students will integrate a linear individual perspective to human development with a systemic family perspective. Y

5314 Assessment of Individuals and Families. Examination of the major individual, marital, and family assessment strategies and instruments. Students will receive training in the use of both testing and non-testing approaches to assessment and appraisal. Attention will be given to the relationship between assessment, diagnosis, and treatment planning. Fee \$200. Y

5315 Advanced Assessment. Advanced study of test development and program evaluation. Relevant strategies for conducting, interpreting and reporting results of research and program evaluation. Y

5320 Research in Counseling. Examination of major individual, marital, and family assessment strategies and instruments. Training in use of testing and non-testing approaches to assessment and appraisal. Attention given to process of assessment, diagnosis, and treatment planning. Fee \$50. Y

5321 Statistics. Study of statistical concepts and their application to counseling. Emphasis on estimation and inferences, and statistical methods, including simple and multiple regression, single factor and multifactor analysis of variance, multiple comparisons, goodness of fit tests, contingency tables, nonparametric procedures, and power of tests. Y

5340 Professional Issues, Ethics, and Law. Focuses on the development of a professional attitude and identity as a marriage and family therapist and a professional counselor. Areas of consideration will include professional socialization, the role of professional organizations, licensure and certification, legal responsibilities and liabilities of clinical practice and research, family law, confidentiality issues, codes of ethics, the role of the therapist in court proceedings, and inter professional cooperation. Y

5342 Advanced Ethics. Study of records management, ethical business practice including business and family law, and professional practice. Also studies governing board rules and current and related issues. Y

5343 Introduction to School Counseling. Foundations of the profession of school counseling. Includes examination of the

philosophy, history, and current trends in school counseling and in education, as well as investigations of the concepts of developmental counseling programs for Pre-K-12 students and the ASCA national model and standards for school counseling programs. Special attention given to childhood mental health and behavioral disorders from the DSM-5. Y

5353 Psychopathology of Individuals and Families. Detailed overview of psychopathology and analysis of psychopathology in educational and counseling settings. Students will receive training in the use of the DSM-5 and its application. Diagnostic and treatment planning skills will be facilitated through the use of case studies. Y

5355 Advanced Psychopathology. Examines psychiatric diagnoses and the Diagnostic and Statistical Manual of Mental Disorders, theories of psychopathology, and basic knowledge of psychopharmacological medications. Fee: \$100. Y

5360 Counseling Theory and Practice. Examination of the major theories and models of counseling. Ethical and culturally relevant issues of in-person and technology-assisted relationships and the impact of technology on counseling is examined. Students expected to develop a coherent theoretical rationale for their therapeutic interventions. Y

5361 Techniques of Individual and Family Counseling. Introduction to the skills involved in developing effective helping relationships. The processes, principles, and techniques associated with counseling are explored. Experiential component fosters the development of basic interviewing, listening, and counseling skills. Additional techniques and resources are reviewed and evaluated. Y

5362 Career Counseling. Reviews concepts, issues, and trends in the field of career counseling and career education. It is designed to consider the role of the counselor in the career decision-making process of individuals across the lifespan. Consideration will be given to the relationships between work, career development, and family functioning. Fee: \$100. Y

5363 Group Counseling. Study of theoretical foundations of group counseling and group work. Emphasis on dynamics associated with group process and development. Ethical and culturally relevant strategies for designing and facilitating groups. Students are provided direct experiences to participate as group members and leaders in small group activities. Fee: \$100. Y

5364 Crisis Counseling. Study of crisis with emphasis on appropriate behaviors and responses to crisis. Applied therapeutic counseling in general and crisis intervention are presented along with strategies to alleviate crisis and deal with crisis aftermath. Y

5381 Foundations of Marital and Family Therapy. Comprehensive overview of the various theories and models of marital and family therapy. Consideration will be given to the therapeutic skills and assumptions associated with the following treatment approaches: cognitive-behavioral, inter-generational, narrative, solution-focused, structural, and strategic. Students will participate in an in-depth exploration of their own families of origin. Y

5382 Premarital and Marital Therapy. Study of the various theories and models of mate selection, marital interaction, and marital intervention. Students will receive training in diagnosing and intervening in dysfunctional relationship patterns. Strategies associated with premarital counseling and divorce adjustment counseling will also be explored. Y

5383 Counseling Children, Adolescents, and Their Families. Intensive overview of therapeutic strategies for working with children, adolescents and their families. Consideration will be given to developmental psychopathology. Techniques and strategies from Adlerian, behavioral, cognitive, humanistic, psychodynamic, and systemic approaches will be presented. Fee: \$100. Y

5384 Addictions. Study of definitions of addiction, substance abuse and dependence, and counseling persons with substance abuse disorders and process disorders. Holistic approach to treatment and recovery is emphasized. Assessment, initial treatment, and intervention techniques are explored for rehabilitation of substance use disorders. Y

5385 Multicultural Counseling. Review of multicultural counseling literature. Focus on promotion of self-awareness and self-knowledge, facilitation of the construction of cultural knowledge to increase awareness and sensitivity to issues affecting multicultural populations, identification of intervention strategies applicable to multicultural clients, and promotion of development of a personal philosophy of substance abuse disorders. Y

5391 Counseling Practicum. Integration of didactic and clinical material in the supervised practice of individual, group, marital, and family therapy. Weekly group and/or individual supervision sessions are included. PRE: Approval of program director. Fee: \$60. Y

5392 Counseling Internship I. Integration of didactic and clinical material in the supervised practice of individual, group, marital, and family therapy. Weekly group and/or individual supervision sessions are included. PRE: Approval of program director. Y

5393 Counseling Internship II. Integration of didactic and clinical material in the supervised practice of individual, group, marital, and family therapy. Weekly group and/or individual supervision sessions are included. PRE: COU 5392 and approval of program director. Y

6062 Comprehensive Exam. Comprehensive, written examination for a graduate degree. To be taken during the last semester. Y

(CRJ) Criminal Justice

2301 Introduction to Criminal Justice. Introductory course designed to familiarize students with the facets of the criminal justice system, the sub-systems and how they interrelate, processing of offenders, punishment and its alternatives, and the future of the criminal justice system. F

2302 Fundamentals of Texas Criminal Law. Study of Texas substantive procedural and evidentiary law with emphasis on the legal elements of the most commonly committed crimes as defined by the Texas Penal Code; warrants of arrest and search and seizure, including how to prepare affidavits in support of those warrants, for judicial approval and authorization based on the Texas Code of Criminal Procedure; the law of confessions and interrogations under Texas decisional law, and how to make lawful traffic stops under Texas criminal law. S

2303 Criminal Investigation. Overview of scientific crime detection and more detailed discussion of techniques for case management and documentation, the concept of proof, the impact of emergent technology on the investigative process, interacting with victims and witnesses, and interviewing suspects. Particular emphasis may be placed on the investigation of particular types of crimes, for example, homicides, sex offenses, child abuse, and hate crimes. F

2304 Legal Aspects of Law Enforcement. Investigation, arrest, search and seizure; constitutional and statutory law and the decisions of the United States Supreme Court and the Texas Court of Criminal Appeals. S

2305 Courts and Criminal Procedure. Examines procedural requirements for judicial processing of criminal offenders. Examines concepts of evidence sufficiency, standards of proof, due process, and constitutional safeguards. F

3301 Criminology. Overview of the major criminological perspectives and an examination of the social, political, and intellectual milieu within which each developed. The course focuses on the multi-disciplinary nature of criminological thought. F

3302 Juvenile Delinquency. Adjustment of youths as they take on the roles and statuses culturally defined for their age group; emphasis on causation, treatment, and prevention of juvenile delinquency; sociological principles for working with youth. Delinquency is reviewed as a form of deviant behavior. S

3311 White Collar Crime. Study of the ideas and perspectives that are dominant in the field of white collar crime. Topics such as organizational crime, occupational crime, legislation aimed at white collar crime, law enforcement, causes of white collar crime, and possible forms of intervention will be discussed. F

3312 Violent Offenders. Introduction to psychological issues relating to understanding, assessing, managing criminal and other abnormal behavior. An overview of mental disorders and their relationship to criminality and violence is provided. Topics include sanity, psychopathy, criminal profiling, serial killers, stalking, women who kill, and threat assessment. S

3321 Understanding Sexual Offending. Overview of the sexual offender. The origins and various motivations that lie behind sex crimes are explored as are treatment strategies and their relative effectiveness with different offender groups. Various approaches to community supervision are examined as are controversial issues such as castration of sex offenders. F

3322 Social Deviance. Psychological and sociological aspects of socially deviant behavior; theoretical overviews and implications for social control and social policy. S

3323 Family Violence. Theoretical issues, both past and present, regarding family violence in order to provide the student with an understanding of the salient issues. In addition, attention will be given to the impact family violence has on the victim and society, legal aspects of family violence, key factors associated with recognition of family violence, and pertinent research

focusing on the subject. F

3324 Corrections, Probation, and Parole. Overview of the corrections system in the United States, including the legal and practical aspects of probation, parole, and incarceration systems; the court process; alternatives to imprisonment; corrections systems and functions; studies of those institutionalized in corrections facilities, including male, females, juvenile, and other special offenders; legal rights of those in corrections systems; and systems to reintegrate offenders from corrections facilities back into the community and society. S

3326 Crisis Intervention. Study of crisis situations in multiple settings with emphasis on appropriate behaviors and responses to crisis. Applied therapeutic counseling in general and crisis intervention are presented along with strategies to alleviate crisis and deal with crisis aftermath. S

4140 Senior Assessment Seminar. Comprehensive assessment of program learning outcomes. Includes instruction, mentoring, academic work outside of class, and an exam over the learning outcomes of the program. B

4321 Forensic Psychology. Study of the intersection of crime, law, and psychology. Emphasis will be placed on understanding how abnormal behavior is treated in the judicial system, as well as civil commitment and criminal competencies. F

4322 Drugs, Alcohol, and Behavior. Survey of psychological factors involved in drug use and an introduction to chemotherapy used in treatment of mental illness. S

4324 Crime Analysis and Crime Mapping. Overview of the field of crime analysis and crime mapping, including key concepts, definitions, and relevant criminological theory as well as methods and techniques of tactical, strategic, and administrative crime analysis and useful information about Internet sites that complement the topics discussed in class. S

4325 Forensic Computer Examination. Overview of high-technology crime; identity theft and other thefts on the information superhighway; digital child pornography and other abuses of children in cyberspace; financial fraud and con artistry on the Internet; investigating the Internet, including examination of online investigations and sting operations; seizure of digital evidence; obtaining and executing search warrants for digital evidence; law enforcement computer programs which aid in searching computer hard drives and computer media; legal issues pertaining to digital evidence; and the future of high-technology crimes. An intermediate knowledge of computer systems, software, and hardware is a prerequisite. F

4326 Terrorism and Homeland Security. Focuses on criminology and controversy of terrorism and issues of homeland security, surrounding the post 9/11 era in which we live. The course will investigate known terrorist groups and their operations around the world, as well as the U.S. position on terrorism and the War on Terror. S

4327 Cyber Crimes. Examines the legal and practical issues surrounding technology-assisted crimes that generally use the internet directly to commit the crimes, including fraud, stalking, theft, drug trafficking, domestic and international terrorism. Explores how computers and media are used to store evidence of crimes. SU

4328 Death Penalty. Examines legal issues surrounding the death penalty, including a historical review of the death penalty from colonial times to the present; analysis of the foundational cases of *Furman v. Georgia* and *Gregg v. Georgia*; a study of the issue of racial discrimination in imposing the death penalty; the legalities of imposing the death penalty on the mentally impaired and juveniles; due process issues and the death penalty, including selection of jurors and mitigating factors in capital cases; issues surrounding appeals and Habeas Corpus in death penalty cases; the evolving standards of decency and the 8th amendment ban on cruel and unusual punishment; and a study of the trends in and the future of the death penalty. S

4329 Gangs. Overview of gangs in our society and the challenges they pose for the criminal justice system. Studies critical components of dealing with gangs directly and indirectly, including juvenile delinquency, criminology, and sociology. Emphasizes distinction between gangs and gang members and the differences between the individual and group perspectives. F

4333 Professionalism and Ethics in Criminal Justice. Study of theories and practices in areas of legality, morality, values, and ethics as they pertain to criminal justice. Included will be such topics as police corruption, brutality, and methods of dealing with such practices, as well as the concept of profession and professional conduct. F

(DMA) Digital Media Arts and Applications

2343 Motion Graphics. Beginning course in manipulating images in sequence with motion for web designers, graphic artists, etc. It utilizes graphics arts for expression and/or effective communication through motion for cartooning and interactive web

design in a Mac environment. Lecture, demonstration, and hands on experience. Each student gains a working knowledge of Flash. Research project required. Fee \$50. F

2344 Multimedia Design. Animation techniques, photo manipulation, page layout, and video for use in multimedia and web design projects. Utilizes current Adobe software: InDesign, Illustrator, Premier, Flash, and Photoshop in a Mac environment. Requires an experiential knowledge of computer graphics, color, and design techniques. Project required. Fee \$50. S

3310 Digital Video I. Basic techniques for editing and manipulating digital media, such as video, sound, animation, and lighting. Introduction to film making, story boarding, shooting, editing, and production. Utilizes current software to manipulate and control image output. Combines dissimilar elements to form powerful imagery in a Mac environment. Course includes use of digital video camera, scanner, and Adobe software in a Mac environment. Research project required. PRE: DMA 2344. Fee \$50. F

3331 Game Design. Introduction of game design with Unity 3D game engine including storytelling, game genre, theme, audience, production, player considerations, scripts, sequences, testing, and debugging. Research project required. Instructor permission required. Fee \$50. F

3332 Digital Fundamentals and Imaging. Beginning course in digital photography, image manipulation, basic art elements, design principles, color theory, and composition. Utilizes Adobe Photoshop, a current image manipulation software along with beginning digital camera techniques, bringing dissimilar elements together in order to form powerful imagery. Course emphasis is on composition and development of self-expression. Access to a digital camera required. Research project required. PRE: Junior status. Fee \$50. B

3341 Advertising Design. Beginning course for visual communicators, such as artists, graphic designers, marketing advertising, and image consultants, interested in graphic arts for expression and more effective communication. Includes advertising campaigns, editorial illustrations, oral presentations, retail packaging designs, and displays. Lecture, demonstration, and hands on experience. Students gain a working knowledge of Adobe Illustrator and Photoshop in a Mac environment. Research project required. PRE: ART 1305 or DMA 3332 and junior status or departmental permission required. Fee \$50. F

3342 Document Design. Contemporary design, graphics and production of mass media publications, including brochures, newsletters, annual reports, magazines, newspapers, and web content with emphasis on desktop publishing technologies. Additional emphasis on typography, papers, inks, color, production and layout. Utilizes Adobe software InDesign and Photoshop. Research project required PRE: DMA 3332 and junior status or departmental permission. Fee \$50. S

4310 Digital Video II. Continuation of DMA 3310. PRE: DMA 3310. Fee \$50. S

4324 Three-Dimensional Modeling. Introduces the principles and processes of 3-D modeling and animation. Areas covered include 3-D space navigation, modeling tools, rendering methods, animation concepts, material properties and creation of textures. A large range of tools and industry techniques will be covered. The creation of complex mechanical and organic 3-D objects. Software: Maya and Adobe Photoshop in a Mac environment. PRE: DMA 2344 or permission of instructor. Fee \$50. S

4330 Digital Media Internship/Portfolio. Visual communication experience in a local business context under the direction and supervision of management and faculty. Internship requires 90 hours of field placement and portfolio development. B

(ECA) Extra-Curricular Activities

1150, 1151, 2150, 2151 Online Campus News Staff. B

1161, 1162, 2161, 2162, 3161, 3162, 4161, 4162 Cheerleading. B

1163, 1164, 2163, 2164, 3163, 3164, 4163, 4164 Men's Soccer. B

1165, 1166, 2165, 2166, 3165, 3166, 4165, 4166 Women's Soccer. B

1171, 1172, 2171, 2172, 3171, 3172, 4171, 4172 Baseball. B

1173, 1174, 2173, 2174, 3173, 3174, 4173, 4174 Men's Basketball. B

1181, 1182, 2181, 2182, 3181, 3182, 4181, 4182 Women's Basketball. B

1183, 1184, 2183, 2184, 3183, 3184, 4183, 4184 Volleyball. B

1185, 1186, 2185, 2186, 3185, 3186, 4185, 4186 Softball. B

1191, 1192, 2191, 2192, 3191, 3193, 4191, 4192 Cross Country/Track. B

1193, 1194, 2193, 2194, 3193, 3194, 4193, 4194 Men's Golf. B

1195, 1196, 2195, 2196, 3195, 3196, 4195, 4196 Women's Golf. B

1300 Yearbook Staff. B

(ECO) Economics

2301 Macroeconomics. Introduction to macroeconomics. Emphasis on national accounts, monetary policy, fiscal policy. B

2302 Microeconomics. Introduction to microeconomics. Emphasis on theories of individual firms and market structures. PRE: ECO 2301. B

3301 Intermediate Macroeconomics. Determinants of long term economic growth, short term fluctuations in output and prices, and prominent schools of thought in macroeconomics; debates concerning the macroeconomic effects of fiscal and monetary policies. PRE: ECO 2302. F

3302 Intermediate Microeconomics. Extensions and applications of microeconomic theory. Theory of the consumer; costs of production and theory of the firm; firm behavior and market structure; markets for factors of production; markets and economic welfare. PRE: ECO 2302. S

4360 Seminar in Economics. Capstone course for economics majors. PRE: Senior standing. D

(EDS) Secondary Education

2310 Foundations of Education. Survey of major concepts related to the teaching profession with emphasis on educational history/philosophy, teaching as a mission, professional ethics, legal issues and culture of the school. 30 hours of field experience are required in the course. B

2320 Instructional Technology. Investigation of concepts and methods of using technology to enhance instruction, design curricula, and assess student achievement. B

3340 Middle School Education. Addresses the strikingly unique characteristics of young adolescents, age 10-14, along with strategies to meet their physical, intellectual, and social/emotional development and analyzes the functions of Middle School classrooms. S

4310 Assessment and Evaluation. Address multiple aspects of the evaluation process at the secondary level. Topics include assessment theory, sound assessment practices, standardized exam data disaggregation (TExES, TAKS), and the Professional Development Appraisal System. PRE: Concurrent enrollment in EDS 4360 and 4660. B.

4330 Managing Diverse Classrooms. Study and practice of the concepts and methods used to successfully manage classrooms and student behavior respective of the diversity of content, culture, ethnicity and learning abilities present in today's schools. The presentation of multiple units of instruction is a major component of the course. Pre: Unconditional admission to Teacher Education Program and concurrent enrollment in EDS 4350. Fee \$135. B

4340 Reading, Writing and Thinking in Secondary and Middle Schools. Investigation of the concepts and methods used to successfully teach the important skills of reading, writing, and thinking in all secondary and middle school content areas. Pre: Unconditional admission to Teacher Education Program and enrollment in last semester before student teaching. B

4350 Design and Delivery. Study and practice of the interrelated processes of designing, delivering and assessing an instructional unit with emphasis on documentation of state and local curricular expectations. The presentation of multiple units of instruction is a major component of the course. PRE: Unconditional admission to Teacher Education Program and concurrent enrollment in EDS 4330. B

4360 Senior Seminar. Capstone seminar of topics related to the expectations for a beginning middle school, secondary, and

all-level educators. Key topics include: Pedagogy and Professional Responsibility TExES preparation, the interviewing process, and professional, ethical, legal responsibilities. Pre: Concurrent enrollment in EDS 4360 and 4310. B

4660 Clinical Teaching. Culminating experience of the pre-professional teacher. This course is an all-day 15-week field experience under the supervision of university and secondary professional educators. PRE: Concurrent enrollment in EDS 4360 and 4310. Fee \$255. B

(EDU) Education

3350 Educational Psychology. Examination of physical, intellectual, social, and psychological growth and learning during childhood and adolescence. It includes the study of major theories of child and adolescent development, motivation, and measurement and assessment. Pre-service teachers will interact with experienced, practicing professionals as they observe, analyze, and apply developmental theories to learning. Fifteen hours of field experience are required. B

5301 Research for School Improvement. Introduction to basic elements of classroom action research, including developing research problems, collecting, organizing, analyzing and interpreting data, and problem solving. B

5302 Advanced Learning Theory and Human Development. Advanced study of learning theory, information processing, complex cognitive processes, motivation, and learner characteristics. SU

5303 Integrating Educational Technology. Study of both theoretical and practical characteristics of technology integration strategies, including using instructional software, using technology media, and integrating technology into the curriculum. B

5304 Curriculum and Instructional Design. Study of the major phases of the instructional process, the major theory basis associated with curriculum and instructional design, the educational advantages of using instructional design, and the principles of assessment as they are applied to educator decision making. B

5305 Methods of Reading Instruction. Presents current research based instructional methods and the reading theories that support these methods going beyond the basics of basal and whole language-based programs to examine the underlying processes readers use throughout the progression of reading development. D

5306 Working with the Gifted/Talented. Deals with the nature of giftedness as well as the curriculum and instruction in the variety of programs offered by school districts from heterogeneous classrooms to pull-out programs. D

5307 Content Area: Writing Assessment and Instruction. Focuses on various formal and informal methods of assessing writing along with all the content areas and will identify research based instructional strategies necessary to improve student learning based on the assessment information in the content areas. D

5308 Assessment and Identification of Educational Challenges. Collection, disaggregation, and evaluation of student performance data to identify strengths and underlying causes of weaknesses in the curriculum and instructional program. PRE: EDU 5309. F

5309 Differentiated Curriculum. Concentrates on the strategies employed to reach the needs of students in the various disciplines. F

5310 Elementary School Science and Math. Study of the science and math curriculum in the elementary school, including instructional practices, methodology and assessment, content integration, reflective analysis, and related innovations. F

5311 Elementary School Language Arts and Social Studies. Study of the language arts and social studies curriculum in the elementary school, including instructional practices, methodology and assessment, content integration, reflective analysis, and related innovations. PRE: REA 3340. S

5312 Exceptionality. Study of how exceptional children are classified, the organization of educational services and related services for exceptional children, the legal requirements associated with special education programs, and instructional strategies used with exceptional students. B

5313 Classroom Management. Study of classroom management principles designed to assist educators to effectively manage the behavior problems that today's students bring to school. The primary purpose of this course is to prepare teachers to be effective managers of their classrooms so that student learning is maximized. SU

5314 Seminar in Reading. Study of reading as both a process and a product, including a study of emergent literacy, reading in

the content areas, comprehension, and various major approaches to reading instruction, including those that deal with readers having special needs. D

5315 Curriculum and Instructional Leadership. Study of educational leadership in our changing world, including a review of the qualities and ethical dimensions of effective leadership, systematically integrating curriculum and instruction, working with students, faculty, staff, and community, in collaboration, leading the instructional program, and understanding and responding to change. S,SU

5316 Ethics for the Leader. Study of the principles and theories of ethics, including philosophy and the Texas Educator Code of Ethics, with a focus on the multiple perspectives inherent to decision making in educational leadership. F,SU

5317 Assessment and Evaluation. Study of both formal and informal methods of evaluating and assessing student programs. B

5318 Basic Dyslexia I. History of early English language, definition and characteristics of dyslexia, and instructional strategies for promoting basic reading skills. CO: EDU 5319. B

5319 Basic Dyslexia II. Instructional strategies for integrating grapheme introduction, phonemic awareness, alphabetic principles and spelling in a multi-sensory setting. CO: EDU 5318. B

5320 Educational Law. Study of the legal bases of education at the national and state levels, including landmark court cases which have affected the organization and administration of schooling and the legal rights and responsibilities of educators and students. F,SU

5321 Principles of Supervision. Study of the principles of instructional and clinical supervision and leadership, including staff evaluation and development. Fee \$200. SU

5322 Educational Business Management and Finance. Study of school business management, including accounting, budgeting processes, purchasing, data processing, personnel management, and facilities management. D

5323 Administrative/Leadership Theory. Study of the principles and theories of organizational behavior, school administration, educational management and leadership, and the application of administrative concepts to problem solving in an educational setting. F,SU

5324 Administration of Special Programs. Study of the administration of special programs in schools, including the legal and academic processes involved in vocational-technical, career, compensatory, reading, and guidance programs.

5325 Advanced Curriculum Design and Development. Study of the principles of curriculum design, development, implementation, and evaluation as it relates to the public schools. CO: EDU 5350. S

5326 The Principalship. Study of the roles of the school principal in campus-level administration. Emphasis will be placed on human relations skills, instructional leadership, curriculum development, professional relationships, personnel supervision, staff development, and the management of student discipline. B

5327 Administrative Practicum. Field-based practicum designed as a capstone experience in the various areas of the principalship, such as curriculum development, instructional leadership, supervision, campus-based discipline, and/or school-based management. Fee: \$60. B

5328 Integrating for Enrichment. Study of the theory, methods, and techniques of developmentally integrating special subjects, such as art, music, exercise, and sports, into the elementary curriculum. D

5329 Content Area Literacy. Study of content area reading, writing, and thinking as strategic interventions in the secondary school and in special education classrooms. SU

5330 Issues in Education. Study of specific problems facing the secondary schools today. Emphasis will be placed upon identifying those problems and developing specific approaches to solving them. Case analysis will be the primary focus. D

5331 Business and Personnel Management. Study of the primary business and personnel management functions found in K-12 schools. S,SU

5332 Teaching with Merging Technologies. Study of and practical application of design and delivery of technology-related instructional tools, including Web 2.0, interactive television, the Internet, and other telecommunication technologies. SU

- 5333 School and Community Leadership. Study of the collaborative relationships between the school and its communities, including communication patterns, diversity issues, and resource mobilization initiatives. F,SU
- 5334 Internet Curriculum Integration. Study and practical application of various Internet related tools in both synchronous and asynchronous environments, such as discussion groups, newsgroups, virtual chats, world-wide-web and assorted search engines, and an examination of practical and policy issues related to the information explosion and the proper use of electronic network resources across educational disciplines. F
- 5335 Educational Technology Resource Management. Study about and development of strategies and resources in a systematic model toward managing technology resources including computers, data and video networking, satellite programs, and hand-held computers. S
- 5336 Technology Tools for Critical Thinking and Problem Solving. A study, development, and delivery of a comprehensive course project that focuses on student learning outcomes related to the TEKS, AECT and ISTE standards, and critical thinking within the K-12 environment to a conference or regional district peer audience. SU
- 5337 Leadership in the Technology Program. Study of the significant issues in the field of instructional technology, including critical issues, emerging technologies, instructional development, state of the art applications, future prospects, research and evaluation, and professional development. S
- 5338 Advanced Dyslexia. Instructional strategies for developing reading fluency, morphology, syntactical awareness, spelling rules for derivations and the cognitive and linguistic structure of written language in a multi-sensory setting. PRE: EDU 5318, 5319. B
- 5340 Achievement Testing/Authentic Assessment. Provides students with knowledge, skills, and experience in choosing, administering, scoring, and interpreting appropriate formal and informal achievement assessment instruments for a variety of children with possible special education needs. Report writing using the information gained from assessment instruments will also be covered. Fee \$50. S
- 5342 Intelligence Testing/Authentic Assessment. Provides students with knowledge, skills, and experience in choosing, administering, scoring, and interpreting appropriate formal and informal intelligence tests and informal assessment instruments for a variety of children with possible special education needs. Report writing using the information gained from assessment instruments will also be covered. Fee \$50. S
- 5343 Cross Battery Learning Disability Assessment. Provides students with knowledge, skills, and experience in choosing, administering, scoring, and interpreting appropriate formal and informal assessment instruments specific for determining the presence of a learning disability based on federal guidelines for diagnosis. Report writing using the information gained from assessment instruments will also be covered. PRE: EDU 5342. Fee \$50. SU
- 5344 Working with Parents and Families of Children with Special Needs. Study of counseling, educational, and interview procedures to allow the special education teacher to communicate and work effectively with parents and families of disabled students. SU
- 5345 Language Development in Children. Review of the development of oral language and the problems of disabled children in the area that affects learning and socialization. A review of intervention programs, techniques, and methods for use in the classroom. F
- 5346 Behavior Management of Children with Special Needs. Review of behavior management techniques used with students in educational settings, with specific emphasis upon their application to the problems posed by disabled students. F
- 5347 Assessing Children with Special Needs. Addresses the teachers' involvement with the assessment of special education students to include, (1) identification of special education students and the role that special education teachers play the use of individualized standard tests; (2) diagnosis of specific curriculum-based learning, with an emphasis on curriculum-based assessment; and (3) remediation of the learning problems with particular emphasis on developing appropriate goals and objectives for the IEP. S
- 5348 Adapting the Curriculum for Children with Special Needs. Focus on adapting the instruction and environment to meet the needs of special education students, with the primary focus how to provide the services and resources necessary for content mastery. The course will also address the different levels of the least restrictive environment. S

5349 Advanced Practicum in Special Education. Opportunity to develop projects for special education students while working students with disabilities. Fee: \$135. B

5350 Models of Teaching. Researched based study of instructional models and related teaching strategies and the impact of standards based assessment, learner diversity, and technology on teaching and learning. Focuses on designing instruction to address the varied needs and characters of learners, thinking at high cognitive levels, making connections, and assessment student progress. PRE: EDU 5308. CO: EDU 5325. S

5351 Capstone in Curriculum and Instruction. Collection and evaluation of student performance data for the purpose of identifying strengths and weaknesses in current curriculum and instruction and developing a modification and implementation plan to address found weaknesses. Students will build an e-portfolio and present and a curriculum and instruction plan to a committee of educators. CO: EDU 5325. F

5360 Seminar/Practicum for Educational Diagnosticians. Provides students with knowledge, skills, and experience for completing required paperwork, testing, and legal obligations required of educational diagnosticians. Students will also learn strategies for talking to parents and educational personnel regarding student assessments and educational plans, including participation for ARD meetings. PRE: EDU 5343. Fee \$50. B

6062 Comprehensive Exam. Comprehensive examination for graduate degree. Y

6101 Superintendency Practicum I. Guided experiences in central office administration under the supervision and direction of a central office administrator and a university professor. SU

6102 Superintendency Practicum II. Guided experiences in central office administration under the supervision and direction of a central office administrator and a university professor. F

6103 Superintendency Practicum III. Guided experiences in central office administration under the supervision and direction of a central office administrator and a university professor. Fee: \$60. S

6301 School Finance. Critical analysis of public school finance, emphasizing planning, budgeting, resource management, fiscal operations, and accountability with a special focus on financing Texas public school districts. SU

6302 School District Policy and Politics. Emphasis on policy and governance issues, including superintendent and board relationships, conflict resolution, communication, community relations, school law issues, communications, and ethics. F

6303 School District Evaluation. Evaluation of the overall effectiveness of a district in areas including, but not limited to academic effectiveness, school district climate, site-based decision making processes, financial stability and integrity, and physical plant efficiency using multiple assessment techniques that are based on state and national criteria and/or grounded in empirical research. F

6304 The Superintendency. Course examines the role and relationships of the superintendent of the local school district in a climate of restructuring and change for quality education. The major emphasis will be on the attainment of the TExES domains and competencies for Texas superintendent certification. S

(EEL) Elementary Education

2307 Conceptual Development of Math for Elementary Teachers. Designed to develop a connection between the conceptual understanding of mathematical concepts and abstract thinking in the areas of number sense, patterns, operations, and pre-algebra for young children. F

2308 Conceptual Development of Math for Elementary Teachers II. Designed to develop a connection between the conceptual understanding of mathematical concepts and abstract thinking in the areas of number sense, patterns, operations, plane geometry, probability, measurement, interpretation of data, problem solving, and student assessment for the middle school child. S

2310 Teachers, Schools, and Society/Tutoring. Introduction to reality of the teaching profession in a diverse society. Includes minimum of 24 clock-hours tutoring students in classroom setting. B

2320 Instructional Technology. Study of the principles of instructional technology and the use of multi-sensory aids to facilitate learning. B

- 3306 Integrated Social Studies. Overview of the social sciences as related to elementary school curriculum. Content includes economics, geography, history, and political science. B
- 3320 Early Childhood Education. Introduction, overview, and analysis of basic principles, development, and types of programs designed to enhance the cognitive, physical, and social/emotional development of young children. Includes a minimum of twelve clock-hours in an early childhood classroom. B
- 4160 Teaching Certification I. Study of the Texas certification framework and teacher appraisal system with special emphasis on the Early Childhood and Middle School Generalist TExES. B
- 4170 Teacher Certification II. Study of the Texas Certification framework and teacher appraisal system with special emphasis on professionalism and the Pedagogy and Professional Responsibility TExES. B
- 4210 Classroom Management and Organization. Study of various techniques and theories in organizing and managing elementary classrooms and student behavior. B
- 4301 Social Studies Methods/Practicum. Developmentally appropriate strategies and techniques for introducing social studies content to elementary and middle school students. Emphasis will be given to the development of integrated thematic curriculum guides and delivery of teaching units. Includes a two-week practicum. Fee \$50 B
- 4302 Mathematics/Science Methods. Developmentally appropriate strategies and techniques for introducing mathematics and science content to elementary and middle school students. Emphasis on the development of integrated thematic curriculum guides and delivery of teaching units. B
- 4320 Assessment and Evaluation in the Elementary School. Study of assessment and evaluation as applied to the elementary school. Fee \$135. B
- 4340 The Elementary School. Organization of elementary school functions with attention to theories, programs, and special needs. Includes observation and evaluation of classroom teaching. B
- 4650 Teacher Aide Practicum. Required of public school teacher aides to complete requirements for certification in EC-4. Requires current employment in the certification area, having completed a minimum of 1½ years in that position. The practicum will be no less than one semester. D
- 4660 Clinical Teaching in the Elementary/Middle School. Teaching under supervision in the elementary school for twelve weeks in an all-day assignment. Includes weekly seminar to address special topics. PRE: Admission to Educator Certification. Fee \$255. B

(ENG) English

- 1301 Composition Studies. Study of the writing process that requires students to write extensively in a variety of modes and styles, including personal, academic, and research essays. Includes an application of research techniques and critical thinking. B
- 1302 Composition and Literature. Critical examination of a variety of literary forms and a careful examination of the writing process, culminating in a research paper. PRE: ENG 1301. B
- 1306 Writing About Literature (H). Examines critical thinking and writing, where students reading, discuss, and write about literature. Readings include great texts in non-fiction essays and speeches, short stories, poems, novels, and films. B
- 2301 Masterpieces of Literature. Critical study of selected works from the classical period through the Renaissance, including a study of classics in the non-Western tradition. PRE: ENG 1302. B
- 2307 Literature and Life (H). Drawing from classical literature primarily in the western tradition, Gilgamesh through Paradise Lost, the course seeks to understand the human condition as widely varying cultures and worldviews have defined it. F
- 3300 Literature for Children and Young Adults. Survey of available literature, including selection and evaluation standards and techniques for evoking a love of reading and responses to books. PRE: ENG 1302. B
- 3302 Introduction to English Studies. Examination of the methods and materials appropriate for teaching language, literature, and composition at the secondary level. PRE: ENG 1302. S

- 3304 Advanced Composition. Workshop approach to the theory and practice of writing creative non-fiction. PRE: ENG 1302. S
- 3305 Introduction to Creative Writing. Workshop approach to the craft of writing fiction, poetry, and drama. PRE: ENG 1302. F
- 3307 Classical and Contemporary Rhetoric. From the ancient world to the worldwide web—a study of influential texts in the development of rhetorical theory, with an emphasis on the art of written discourse. PRE: ENG 1302. FO
- 3308 Technical Writing. Design and preparation in a networked computer environment of special writing projects appropriate to the world of work, including resumes, letters, proposals, reports, instructions, and oral presentations. PRE: ENG 1302. B
- 3310 Writing Grant Proposals. Introduction to writing professional grants and proposals through the application of rhetorical principles. Practice in applying rhetorical principles to documents that manage change. PRE: ENG 1302, recommend ENG 3308. S
- 3311 American Novel. Study of the American novel with emphasis on trends in the twentieth century. PRE: ENG 1302. F
- 3313 American Literature to 1890. American literature from its beginnings to the rise of Realism. PRE: ENG 1302. S
- 3317 Approaches to Advanced Grammar. Study of the history of the English language and survey of traditional and modern grammars. PRE: ENG 1302. F
- 3318 Rhetoric of Design. Introduction to critical analysis of discursive and non-discursive artifacts, with focus on the rhetorical implications of design. PRE: ENG 1302, recommend ENG 3307. FE
- 3321 African-American Literature. Study of developing themes in African-American literature from the slave narrative to contemporary texts, including non-fiction, poetry, and fiction. PRE: ENG 1302. SE
- 3322 American Literature since 1890. American literature covering the periods of Realism, Modernism, and Post-modernism. PRE: ENG 1302. F
- 4301 Multicultural Literature. Study of literature by authors from a variety of geographical and cultural backgrounds. PRE: ENG 1302. D
- 4304 Fiction Writing Workshop. Round-table workshop requiring the production and presentation of short fiction and chapters from novels, culminating in a portfolio. PRE: ENG 1302, ENG 3305 or permission of instructor. SO
- 4306 Christianity and Literature. Study of how Christianity has shaped Western literature and aesthetics from Augustine forward, with emphasis on overtly Christian masterpieces. PRE: ENG 1302. F
- 4308 Poetry Writing Workshop. A round-table workshop requiring the production and presentation of poems in various genres, culminating in a portfolio. PRE: ENG 1302, ENG 3305 or permission of instructor. SE
- 4313 Studies in Drama. Study of selected works of Third World, European, British, and American drama. PRE: ENG 1302. FO
- 4314 Comparative Literature. Study of themes, such as love, justice, war, the quest, politics, and genres such as novel, epic, short story, drama, poetry, Bildungsroman, in world literatures in translation. PRE: ENG 1302. SO
- 4315 Major British Writers to 1800. A representative selection of the most significant British literature from Beowulf to Burns. PRE: ENG 1302. S
- 4316 English Novel. Study of the development of the English novel from its antecedents to the present with emphasis on trends in the twentieth century. PRE: ENG 1302. FE
- 4323 Major British Writers since 1800. Significant British literature from Blake to Philip Larkin. PRE: ENG 1302. F
- 4324 Studies in Shakespeare. Analysis of the development of Shakespeare's art and thought as viewed through his better known plays. PRE: ENG 1302. SE
- 4326 Literature and the Film. Review of film theory and a study of the written and filmed versions of significant works of literature. PRE: ENG 1302. FE

4360 Senior Seminar. Examines and verifies the research and writing skills of seniors specializing in English. D

5301 Advanced Seminar in Writing. Study of the writing skills typically encountered by educators in student centered schools. Included is a study of writing across the curriculum and writing as it relates to content areas. D

(ESL) English as a Second Language

3372 Teaching the Multicultural/Multilingual Student. Strategies and techniques for teaching and working with the multicultural/multilingual student. Introduces the principles of multicultural and bilingual education examines ways to adapt instruction and classroom context to address the needs of culturally, linguistically, and ethnically diverse students. F

3382 First and Second Language Acquisition. Focuses on the foundations of language teaching. Topics include English Language Learner (ELL) characteristics, First (L1) and Second Language (L2) acquisition theories, and applying major language teaching methodologies in the classroom. Development of language as related to bilingual education and the teaching of English as a second language. S

3392 English as a Second Language Methodology for Pre-K-12 Grade. Allows students to explore and reflect on the foundational knowledge for second language literacy by examining its philosophy, theory and examples of success in classroom practices. Topics include English Language Learner (ELL) characteristics, First (L1) and Second Language (L2) acquisition theories. Explore the application of major language teaching methodologies in Pre-K-12 grade classroom. D

(ESP) Special Education

3382 The Exceptional Child. Historical perspective of special education and the exceptional child with emphasis on children with speech handicaps, mentally retarded children, children with auditory and visual impairments, children who have behavioral disorders, and children who have neurological, orthopedic, and/or other health impaired disabilities. A minimum of 12 clock-hours of observation in a special education setting is required. B

4650 Teacher Aide Practicum. Required of public school teacher aides to complete requirements for certification in EC-4. Requires current employment in the certification area, having completed a minimum of 1½ years in that position. The practicum will be no less than one semester. D

4660 Clinical Teaching in the Special Education. Teaching under supervision in the elementary and/or secondary school for twelve weeks in an all-day assignment. PRE: Admission to Educator Certification. Fee \$315. B

(ESS) Exercise and Sport Sciences

1200 Personal Fitness and Wellness. Study of the health related aspects of fitness and the assessment of personal profiles leading to the development of positive attitudes in lifelong fitness. Fee \$50. Y

1201 Introduction to Exercise and Sport Sciences. Introductory survey of the field of exercise and sport sciences, including a historical review and current employment opportunities. B

1270 First Aid and CPR. Study of basic principles of first aid and CPR techniques. Fee \$50. B

2142 Theory and Practice IV. Theory and practice of fundamental movement activities. B

2310 Care and Prevention of Athletic Injuries. Study of diagnosis, treatment, and care of athletic related injuries. Fee \$50. B

2312 Team, Individual, and Outdoor Educational Activities. Provides developmentally appropriate teaching methodology, curriculum development, and refinement of teaching skills for team, individual, and outdoor activities. F

2314 Human Movement. Integrated analysis of the science of human movement mechanism related to the influences on performance in sport, work, and the activities of daily living. Includes basic biomechanical factors and concepts. PRE: BIO 2401. Fee \$50. Y

3301 Advanced Care of Athletic Injuries. Advanced study of diagnosis, treatment, and care of athletic injuries. PRE: ESS 2310 and BIO 2401 or consent of instructor. Fee \$50. F

3321 Management of Sport. Detailed examination into leadership effectiveness and group cohesion in exercise and sport science. Students will be able to identify, differentiate, and assess leadership effectiveness and group cohesion across the

discipline. F,SU

3324 Sport in Society. Provides an analysis of sport and leisure in the United States from the standpoint of its socioeconomic impact and relevance, contemporary social organization, social psychological processes, and issues such as violence, inequality, sports and education, and social values. SE

3332 Foundations of Secondary Physical Education. Methods and materials of planning and instructing physical education classes in secondary schools. FE

3335 Exercise Psychology. Concepts in psychology applied to individual involvement in exercise. Emphasis on theoretical models and methods for assessing exercise adherence. Investigation of methods and strategies for behavior intervention and program development to promote adherence to exercise programs. SO

3340 Motor Learning and Control. Study of the fundamental concepts and applications of motor learning and control. Its primary focus is on movement behaviors that can be observed directly and on the many factors that affect the quality of these performances and the ease with which they can be learned. Fee \$50. Y

3341 Measurement and Evaluation in Exercise Physiology. Use of laboratory, field, and software tools to accurately collect, analyze, and interpret relevant and authentic data. PRE: BIO 2401 and BIO 2402. B

3356 Sport Psychology. Concepts in psychology as applied to individual involvement in sport and other forms of competitive activity. Emphasis on motivation, stress management, personality theory, performance enhancement, and group dynamics. F

3371 Physiology of Exercise. Study of the effects of physical exercise upon the major systems of the body. PRE: BIO 2401 and BIO 2402. Fee \$50. B

4230, 4330, 4430 Internship in Exercise and Sport Sciences. Practical experience in the selected area of specialization. Y

4300 Foundations of Elementary Physical Education. Methods and materials of planning and instructing physical education classes in elementary schools.

4301 Biomechanics. Study of components of forces applied to the body during various sport motions and exercise. Knowledge of forces applied to various joints and muscles during sport and exercise enhances teaching skill and technique as well as understanding the role of forces in natural motion and injury. PRE: ESS 2314. Fee \$50. FO

4302 Therapeutic Rehabilitation and Modalities. Principles of therapeutic exercise, the essentials of a rehabilitation program, physiological effects, and therapeutic indications associated with the use of standard modalities. PRE: ESS 2310 and BIO 2401 or consent of instructor. S

4322 Sport and Exercise Nutrition. Study of the metabolism of food by various tissues of the body and its relation to exercise. The role of diet in the development and treatment of some chronic diseases will be discussed along with the application of nutritional principles to enhance human performance. Fee \$50. F

4350 Principles of Strength and Conditioning. Fundamental concepts of training program design for both apparently healthy and athletic populations. Includes competencies required for the NSCA's Certified Strength and Conditioning Specialist (CSCS) examination. Fee \$50. S

4361 Exercise Testing and Prescription I. Physiological theory and its practical application to exercise testing and prescription. Includes competencies required for ACSM Exercise Specialist exam. PRE: ESS 3341 and 3371. Fee \$50. F

4362 Exercise Testing and Prescription II. Continuation of ESS 4361. Includes competencies required for the ACSM Exercise Specialist examination. PRE: ESS 4361. Fee \$50. S

4380 Senior Research. Capstone course which allows the student to present both written and oral findings related to a selected research topic within Exercise and Sport Sciences. B

4382 Life Span Motor Development. Study of development in the psychomotor domain. Areas of emphasis include learning theories physiological bases of skill behavior, the state of the performer, and application of instructional techniques in motor learning and skill performance. S,SU

(ESS) Activity Courses

1101, 2101 Aerobics for Women. D

1102, 2102 Jogging. D

1103, 2103 Rock Climbing. D

1105, 2105 Bowling. D

1107, 2107 Golf. D

1108, 2108 Fitness Through Self-Defense. D

1112, 2112 Skiing. D

1115, 2115 Weight Training. D

1123, 2123 Bicycling. D

1125, 2125 Backpacking and Camping. D

1126, 2126 Spinning. D

(FIN) Finance

2301 Personal Financial Planning. Budgeting, management of credit, investments, and estate planning. B

3300 Corporation Finance I. Introductory course in financial policies of corporations with attention to capital markets and investment theory. PRE: ECO 2301 and ACC 2301. B

3301 Real Estate Fundamentals. Examination of the real estate market, including operational, legal, financial, investment, and other aspects. Consideration is given to urban land use and land use planning. F

4302 Corporation Finance II. Advanced study of selected topics in business finance including leasing, mergers, business failure, capital budgeting, capital structure, and others. PRE: FIN 3300. S

4309 Investments. Study of personal and business investments. Stock markets, futures markets, money and capital markets, and portfolio analysis. PRE: FIN 3300. S

4311 International Trade and Finance. Study of the impact of the international environment on the American economy and individual business enterprises, including a consideration of international monetary problems, international trade and its financing and multinational enterprise. PRE: ECO 2301. F

4315 Financial Statement Analysis. Advanced study of financial topics specifically related to financial statements. Includes analysis of financial statements focusing on ratio, comparative, and trend analysis. PRE: FIN 3300. F

(FOL) Foreign Language

1301 American Sign Language I. Introduces basics of American Sign Language (ASL) for students having little or no previous knowledge of ASL. Readiness for learning is approached by visual-gestural communication techniques, visual discrimination, and visual memory exercises. ASL questions, commands, and other simple sentence structures are introduced to develop rudimentary conversational skills in ASL. Information about the deaf community and deaf culture is introduced. F

1302 American Sign Language II. Continued development of American Sign Language (ASL) skills with primary focus on refining the use of basic ASL sentence types. Classifiers, spatial referencing, pluralization, and temporal and distributional aspects are introduced. Routine communicative functions of the language: asking, requesting, providing clarification, giving and asking for directions are learned. Additional information about the deaf community and deaf culture is included. PRE: FOL 1301. S

1303 Beginning Portuguese I. Introduction to reading, writing, listening, and oral skills in Portuguese while exploring aspects of the Luso-brazilian culture. D

- 1304 Beginning Portuguese II. Continuation of Beginning Portuguese I. PRE: FOL 1303. D
- 1321 Beginning Mandarin Chinese I. Introduction to reading, writing, listening, and speaking in Mandarin Chinese while exploring aspects of Chinese-language cultures. D
- 1322 Beginning Mandarin Chinese II. Continuation of Beginning Mandarin Chinese I. PRE: FOL 1321. D
- 1381 Beginning French I. Introduction to reading, writing, listening, and speaking in French while exploring aspects of French-language cultures. D
- 1382 Beginning French II. Continuation of Beginning French I. PRE: FOL 1381. D
- 1401 Beginning Spanish I. This introductory course develops reading, writing, listening, and oral communicative skills. The class is conducted primarily in Spanish. No previous knowledge of the language is required, but 1-2 years of high school Spanish are recommended. F
- 1402 Beginning Spanish II. This introductory course further develops the reading, writing, listening, and oral communicative skills covered in FOL 1401. This course will be conducted primarily in Spanish. PRE: FOL 1401. S
- 1481 Beginning German I. Introduction to reading, writing, listening, and oral skills in German while exploring aspects of German-language cultures. D
- 1482 Beginning German II. Continuation of Beginning German I. PRE: FOL 1481. D
- 2301 Intermediate Spanish I. Strengthens language skills and cultural competency through the analysis of linguistic and literary techniques in internationally acclaimed literary pieces and award-winning short films. PRE: FOL 1401 and 1402 or 8 hours advance credit in Spanish. F
- 2302 Intermediate Spanish II. Continuation of FOL 2301 further improving reading, writing, listening, and oral communicative skills. PRE: FOL 2301 or 11 hours of advance credit in Spanish. S
- 2303 Latin I. Introduction to Latin grammar, syntax, and vocabulary with readings from writings of classical authors. Attention is given to aspects of Roman culture that influenced Western thought and to the Latin influence on English. FO
- 2304 Latin II. Continuation of introduction to Latin grammar, syntax, and vocabulary with appropriate readings. SE
- 2313 Intermediate French I. Comprehensive review of major grammatical structures and vocabulary. PRE: FOL 1382. D
- 2321 Intermediate Mandarin Chinese I. Comprehensive review of major grammatical structures and vocabulary. PRE: FOL 1322. D
- 2322 Intermediate Mandarin Chinese II. Emphasis on using Chinese for study and work purposes. PRE: FOL 2321. D
- 2381 Intermediate German I. Comprehensive review of major grammatical structures and vocabulary. Conducted primarily in German. PRE: FOL 1482. D
- 2382 Intermediate German II. Continuation of Intermediate German I. Conducted primarily in German. PRE: FOL 2381. D
- 3301 Introduction to Latin American Life and Literature. Professional communication skills in Spanish through the study of Hispanic history, life and culture by blending essay writing, presentational speaking, and interpretive reading and listening. F
- 3302 Introduction to Hispanic Literature and Art. Continuation of FOL 3301 emphasizing Hispanic literature and art in Europe and the Americas. PRE: FOL 2301 and 2302 or 14 hours advance credit in Spanish. S
- 3311 Hispanic Culture and Communication. Beginning Spanish introduced in the first half of the course and second focuses on historical/cultural development of Hispanics in the United States. English readings explore issues of race, ethnicity, and integration, as well as Hispanic contributions to life in the United States. F
- 4301 Survey of Spanish Literature. Study of masterpieces of the literature of Spain from its origins to contemporary times. PRE: FOL 3301 and 3302. F
- 4302 Survey of Spanish-American Literature. Study of masterpieces of the literature of Latin America from its origins to _____

contemporary times. S

4306 Advanced Grammar and Composition. Study of Spanish grammar with assignment of original compositions on topics of current interest. PRE: FOL 3301 and 3302. F

4360 Senior Seminar. Emphasizes improvement in understanding and speaking Spanish. S

(GEG) Geography

2300 Regional Geography of the World. Introduction to the spatial distribution of the human and physical geographic phenomena of the world within a regional framework. Topics of regional focus include the spatial distribution of physical factors such as geomorphology, relief, climate, and vegetation, and human factors such as economic, cultural, and political geography. BE

3342 Regional Geography of the U.S. and Canada. Introduction to the spatial distribution of the human and physical geographic phenomena of the U.S. and Canada. Topics include the spatial distribution of physical factors such as geomorphology, relief, climate, and vegetation, and human factors such as economic, cultural, and political geography. FO

(GOV) Government

2301 National Government. Introduction to the Constitution, framework, and organization of the American political system, including federalism, political parties, elections, and interest groups. B

2302 Texas State and Local Government. Introduction to the Texas state and local political system and comparison to state and local government throughout the United States. B

3313 Religion, Morality, and Politics. Examines conceptions of the soul, morality, and the political order, with emphasis on the place of religion in the American system. SE

3314 Comparative Politics and Development. Political culture, party systems, government institutions and political behavior in leading industrialized countries and selected lesser countries with a focus on comparative theories in political science. D

3323 American Foreign Policy and International Relations. Past and contemporary theories of international relations, the struggle for power, propaganda, diplomacy, international organizations, and an overview of American foreign policy. D

3325 History of Law. Considers legal traditions from the ancient world through the early modern period and their contribution to modern legal philosophies and institutions. D

3331 U.S. and Texas Public Policy. Overview of public policy making in the U.S. and Texas with an emphasis on the major policy issues of the present. D

3341 American Public Administration. Survey of the field of public administration, principles of administrative organization, and the structure of government charged with the carrying out of public policy. SO

4305 Constitutional Law. Analysis of Supreme Court decisions, showing their political, moral, and psychological impact on American society, including changing conceptions of the role of the Court in American society. FO

4306 Political Theory. Exploration of ancient, medieval, and modern political theories and their relationship to contemporary ideas, ideologies, and controversies. D

4380 Senior Research. Independent study designed for advanced students who will do some original research, give some reports, attend informal lectures, and participate in group discussions about a particular field of study. D

(HIS) History

1315 World History and Geography I. World history from the beginning of civilization to 1600 with a related emphasis on world geography. F

1316 World History and Geography II. World history from 1600 to the present with a related emphasis on world geography. S

2301 History of the United States I. History of the United States from the discovery of America to 1877. B

- 2302 History of the United States II. History of the United States from 1877 to the present. B
- 2350 History of Texas. Political, economic, and cultural developments in Texas from earliest settlement to the present. B
- 3310 History of Asia. Discussion of the nineteenth and twentieth centuries as the Asian nations emerge as the population and economic centers of the world. Containing three of the four most highly populated nations in the world, Asia grows in importance and influence in world affairs from the age of foreign control through independence and acceptance of its nations as world powers. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. SO
- 3313 Colonial America. History of the United States from the colonization of Jamestown through the period of the early Republic. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. D
- 3315 Jeffersonian and Jacksonian America. Evaluates the targeting, absorption, and exploitation of United States expansion to the western frontier. Emphasis given to resultant tensions and conflict, whether national, ethnic, regional, or environmental. D
- 3318 The American West. History of the United States from the founding of the Federalist and Republican Parties through the era of antebellum expansion, culminating with the Mexican-American War. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. D
- 3320 History of Africa. Moving from the heyday of colonialism, an examination of the struggle of the African nations for independence and their achievements in developing stable governments in the face of racial, tribal, social, and economic problems. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. D
- 3323 Ancient History. Things your mummy never told you, from the rise of Mesopotamia and Egypt and the Greek democracies through the fall of Rome in 476. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. D
- 3325 History Pedagogy. Method and design for the effective teaching of standards-aligned history classes. Emphasis on the development of lessons, materials, and assessments. Introduction to pedagogical strategies specific to the discipline of history. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. F
- 3330 History of Latin America. Examination of Latin America emerging from the Napoleonic wars as struggling nations, attempting to maintain their independence from European and North American influences. Discussion includes the rise of Latin American nationalism and the struggle of various Latin American nations to find a place in the sun outside of the shadow of U.S. and European political struggles. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. D
- 3340 History of Science (H). Study of the history of science with emphasis on paradigm shifts and sociopolitical influences that impact science. D
- 3341 America and the Middle East. Study of the origins of Islamic culture and the culture of the Arab world from seventh century BCE through the modern era. Evaluates the connections between Arab culture and the contemporary history of insurgency and terror as it currently relates to the United States. D
- 3342 History of Environmentalism (H). Study of the history of science with emphasis on paradigm shifts and sociopolitical influences that impact science. D
- 3344 History of Russia (H). Historical study of the world's largest nation, from Rurik to the modern era. D
- 4302 Civil War and Reconstruction. Examination of the course of events from the antebellum period through reconstruction, including political, social, cultural, military, and economic developments. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. D
- 4305 American Society and Religion: the Great Leveling, 1790-1920. Study of the process by which religious elites in America gave sway to evangelicalism in the aftermath of the First Great Awakening. Throughout the 19th century, American religious experience was dominated by revivalism, millennialism, and utopianism. Considers these movements and their consequences in the social and political context of the times. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. FO
- 4313 The Gilded Age through the Jazz Age. History of the United States' modernization, from 1877 through 1929. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. D

4314 Recent America. History of United States from the onset of the Great Depression to the present. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. D

4315 The Great War and the Retreat from Responsibility. Study of World War I (1914-1918), through immediate aftermath, the subsequent battle over American foreign policy direction, and the triumph of isolationism in the neutrality acts of the 1930s. D

4316 Depression and War. In-depth analysis of the causes, impact, and legacy of the Great Depression and World War II. D

4320 Victorian Studies. Study of the social, political, and military history of Great Britain and the continent from the reign of the Hanoverian kings (1714) through the death of Victoria (1901). D

4325 History of England to 1714. Survey of the development of England from pre-history to the first Hanoverian king of England. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. FO

4326 Modern Europe: 1715 to Present. Survey of European history from Louis XV to yesterday's newspaper. PRE: Completion of 6 hours from HIS 1315 and HIS 1316 or HIS 2301 and HIS 2302. D

4360 Senior Seminar. Examines and verifies research and writing skills of seniors specializing in history. D

(HON) Honors

2354 Honors Seminar. Interdisciplinary study of various topics and issues, with attention to discussion, research, writing, critical thinking, and integration of student major. D

3312 Law and Literature. Studies in the use of literature to explore legal issues in the 20th and 21st centuries. S

3354 Honors Seminar. Interdisciplinary study of various topics and issues, with attention to discussion, research, writing, critical thinking, and integration of student major. D

4330 Internship/Study Abroad Internship. Internship or study abroad internship. D

4354 Honors Seminar. Interdisciplinary study of various topics and issues, with attention to discussion, research, writing, critical thinking, and integration of student major. F

4380 Senior Research. Capstone course of the honors experience, where students in or near their last semester at the university conduct library, laboratory, and/or field research on an issue or problem in their major field of study. Course requirements include the development of an annotated bibliography, the formation and articulation of a thesis in a research paper, and the presentation and defense of this thesis. Students in the performance arts, the natural and physical sciences, and some professional programs may substitute appropriate research and presentation components, as approved by the Honors Director and the major advisor. B

4382 Honors Thesis. Supervised research project in area of specialization, culminating in a written thesis and oral presentation. S

(HSC) Human Sciences

2310 Lifespan Human Development. Physical and psychological development of the individual from infancy through adulthood. B

2330 Love, Courtship, and Marriage. Principles involved in building a healthy marriage. B

3300 Child and Adolescent Development. Study of physical, intellectual, social, and psychological development from birth through adolescence. B

3304 Adolescent Development. Application of developmental theory and cultural contexts to the understanding of persons in transition to adulthood. B

3305 Children, Families and Social Policy. Examines societal forces that impact the family such as the child welfare system, the development of laws and public policy, and the relationship between government policy and family life. F

3313 The Family. Principles involved in developing a successful family throughout all the family's phases. Includes a study of

healthy and unhealthy relationships in the family. F

3315 Ethics in the Helping Professions. Focuses on the professional practices and ethics in the helping profession as well as the legal aspects of providing professional services in helping professions. Students will learn how to manage themselves and their professional practice so as to be both legal and ethical. F

3322 Gender and Sexuality. Human gender and sexuality from a life cycle perspective, with an emphasis on developmental, familial, and societal factors that influence gender and sexuality. S

3323 Family Violence. Study of the theoretical issues, both past and present, regarding family violence in order to provide the student with an understanding of the salient issues. Attention given to the impact family violence has on the victim and society, legal aspects of family violence, key factors associated with recognition of family violence, and pertinent research focusing on the subject. F

3324 Marital and Family Therapy. Introduction to the major models of marriage and family relations, dysfunctions and techniques of intervention. S

3326 Family Stress, Crisis, and Resilience. Investigation of the stresses and crises experienced by families and their members. Emphasis will be given to identifying strategies for cultivating family resilience. S

3328 Parenting. Study of parenting practices, parenting rights and responsibilities. The course will emphasize the development of healthy parent and child relationships and study how parenting roles change over the life cycle. S

3350 Social Gerontology. Considerations of aging in the family as related to interpersonal relationships and environmental needs of the elderly. Special emphasis is given to social services for the elderly. F

4323 Family Life Education and Enrichment. Investigation of the contemporary models, methods, and resources associated with family life education and family enrichment. Attention will be given to needs assessments, program design, teaching strategies, and group facilitation skills. F

4324 Family Dynamics of Addiction. Survey of psychological factors and treatment involved in addiction and the impact of abuse on family dynamics, neurology, and biochemistry. S

4326 Family and Community. Examines the reciprocal relationship between families and major social institutions: government, religion, education, economic, and work place. Emphasis will be given to the impact of law and social policy on families and to the role that community agencies play in serving families. S

4390 Practicum. Participation in a department approved structured and supervised setting to give an introductory experience to the field of human sciences. Each student participating in a field experience must purchase liability insurance through the university. Fee \$300. B

6141 Christian Worldview in Family Education. Examination of the impact of a Christian worldview on individual and family beliefs, interaction, and structure. Consideration will be given to the role of a Christian worldview in family education. Y

6300 Human Services Theory and Practice. Foundations of human services from broad perspective. Examines the philosophies, values, concepts, trends, challenges and opportunities in human services. Y

6301 Marital and Family Education. Detailed study of family development and functioning in light of family systems with emphasis on an agency or organization's opportunities to intervene in this context. Same as MIN 6301. Y

6304 Organizational Leadership. Detailed study of leadership focusing on personal leadership and organizational leadership. Attention will be given to the latest trends and models from administration, organization, and leadership theory. Same as MIN 6304. Y

6309 Crisis Intervention. Study of crisis in the multiple settings with emphasis on appropriate behaviors and responses to crisis. Applied therapeutic interventions in general and crisis intervention are presented along with strategies to alleviate crisis and deal with crisis aftermath. Y

6310 Social Development of Individuals and Families. Examination of similarities and differences in conceptions of behavior throughout the lifespan; emphasis on individual development in the context of the family. Y

- 6312 Studies in Family Life Education. Analysis of the latest trends and topics of interest in family life education. Y
- 6314 Contemporary Issues in Adolescent Development. Latest readings and research in adolescent culture and in youth ministry. The student will be presented with a systems view of youth ministry and its impact on programming. Same as MIN 6315. Y
- 6315 Parent Education. Examination of major objectives and the underlying guidance principles in parent-child relations; study of programs and agencies in parent education. Y
- 6322 Human Sexuality. Study of human sexuality from a life cycle perspective with an emphasis on developmental, familial, and societal factors that influence individual sexuality. Y
- 6323 Family Systems. Extensive introduction to the concepts of family systems theory with application of this theory to family, church, and ministry. Same as MIN 6323. Y
- 6324 Family Resource Management. Applications of family financial planning models to decision making and asset resource allocation. Y
- 6332 Helping Professions and Public Policy. Public policy, legal, and ethical issues related to families will be addressed with an emphasis on marriage, divorce, custody, adoption, juvenile rights, malpractice, courtroom testimony, competence, and wills and estates. Y
- 6333 Ethics in the Helping Professions. Study of ethical decision making in helping professions with an emphasis on understanding ethical codes within the helping professions. Y
- 6334 Conflict Resolution. Survey of theory and research in conflict resolution with an emphasis on the student's developing practical skills to help resolve conflicts within families and organizations. Y
- 6340 Human Resources in Human Services Organizations. Study of human resources policies and systems appropriate to public and non-profit human service organizations. Y
- 6342 Development in Human Resources. Study of fundraising options available to human service organizations. Particular emphasis is given to the development of fundraising plans and strategies for human service programs and organizations. Y
- 6344 Human Services Administration. Examines broad-based understanding of leadership and administration in human services organizations. Topics include leadership in various contexts, the roles of teams, power, politics, and conflict in organizations, and facilitating organizational change through visionary servant-leadership. Y
- 6346 Program Planning and Evaluation. Examines theories, processes, and procedures of program planning and evaluation. Development of skills necessary to design, develop, and evaluate human services programs. Y
- 6390 Family Life Education Practicum. Supervised outreach family life education experience in preventative and educational activities, including program development, implementation, evaluation, teaching, training, and research related to individual and family well-being. Comprehensive exam and portfolio review accomplished. Grade of B required for completion. Y
- 6391 Human Services Capstone Project. Students will design, organize, and conduct a major project that integrates a topic of special interest. Project analyzes and synthesizes theoretical and applied concepts in the field of human services. Project involves scholarly research and experiential application. Students complete project at a selected agency and develop a comprehensive APA-style paper pertaining addressing the project. Students make an oral presentation of the project and its results. Y

(HTH) Historical Theology

- 3311 Christian History and Theology I. Survey of major events, people, historical, and theological developments in Christian history ranging from the post-apostolic period through the waning of the patristic period in the mid-6th century. Required readings will include primary and secondary literature. F
- 3322 Christian History and Theology II. Survey of major events, people, and historical/theological developments in Christian history ranging from the early Medieval period through the mid-seventeenth century. Readings include secondary literature but will focus on primary sources. PRE: HTH 3311. S

4331 Christian History and Theology III. Survey of major events, people, historical, and theological developments in Christian history during the modern period (mid-17th century to the present). Required readings will include primary and secondary literature. PRE: HTH 3322. F

(HUM) Humanities

2300 Exploring the Human Experience. Study of human culture to understand our cultural roots. Topics include art, music, politics, history, psychology, philosophy, and literature from the Renaissance to the present. SE

4330 Internship. Writing experiences in business context under the direction and supervision of management and faculty, including preparation of a portfolio, narrative essay, and oral presentation. PRE: Senior standing and permission of faculty. D

4380 Senior Research. Students will work with a committee of two professors, at least one from their area of specialization, and complete a series of research and writing assignments resulting in a long paper and an oral presentation drawn from their area of specialization and illuminating the emphasis of their study. Taken during the senior year. B

(INT) International Studies

2305 International Studies. Introduction to the interdisciplinary field of international studies, examining the cultural, political, economic, and social issues related to the dynamics of globalism. D

(IST) Information Systems and Technology

1301 Foundations of Information Systems and Technology. Introduction to contemporary information systems and how people, software, hardware, data, and communication technologies can create a competitive advantage for global organizations, and how IT enables improvements in quality, speed, and agility. F

1350 Computer Programming I. Program logic and design tools. Students learn to confront a problem, take it apart, analyze each step, and design a logical plan to direct the computer to perform the required actions. Students will learn to use current design tools to explain, document, and plan their programming. A simple programming language will be used to test the programs. F

2300 Microcomputer Applications. Development of expert user skills in word processing and database application software. F

2302 Enterprise Architecture. Explores design, selection, implementation and management of enterprise IT solutions, focusing on applications and infrastructure and their fit with business, managing risk and security within audit and compliance standards. Goal is understanding of basic concepts for Information Technology Infrastructure (ITIL) Foundations certification. PRE: IST 1301. S

2311 Computer Programming II. Introduction to object-oriented programming, including analysis and design, implementation, and testing of software. PRE: IST 1350. F

2314 Graphical User Interface Programming. Study of the use of object-oriented programming to create graphical user interfaces. PRE: IST 2311. S

2323 Web Programming. Examination of document object model and markup and script languages that facilitate computing on the world wide web. PRE: IST 1350. ES

3300 Advanced Spreadsheet Design. Use of advanced concepts and techniques with a spreadsheet in statistical analysis and information processing and presentation. B

3311 Management Information Systems. Study of the use of information technology to support and promote organizational goals. PRE: IST 3300.

3323 Geographic Information Systems. Introduces basic concepts and applications of Geographic Information Systems. Course focuses on GIS reporting, accessing previously gathered data and preparing it for spatial reporting on maps. Opportunity to perform analysis in a variety of content areas and make decisions on real world concerns. F

3324 Java Programming. Object oriented programming using Java for Internet, intranet, and networking applications. PRE: IST 2311. OS

3330 Introduction to Computer Operating Systems. Study of the use of computer operating systems, including commands and editors, file systems, processes, networking, programming, and system administration. PRE: IST 2311. D

3332 Networking. Introduction to networking. Basic networking concepts and technologies will be reviewed. Hardware and software issues, including the following, will be explored: LANS, WANS, OSI 7 layer networking model. Students will have hands-on experience in planning and installing an Ethernet network. B

3333 User Support and Help Desk Concepts. Concepts and principles of user support and help desk roles in the corporation. Both techniques of user support and troubleshooting and management of help desk centers will be covered. D

3341 Database Management Systems. Students will develop advanced skills in the design and use of a DBMS. Database components of data models, relational databases and query processing will be emphasized. PRE: IST 1350. Fee: \$50 F

3351 Web Design. Study of markup language and the processes of organizing and designing web sites. Includes HTML5, CSS, JavaScript, color theory and page layout design, and development of individual and client based web sites. Fee \$50. F

4330 Internship. Work in an area of business utilizing skills developed in the program. PRE: Senior standing and approval of the instructor. B

4333 Server Administration. Network system administration for local area networks. Principles and procedures include areas of resource and user administration, remote administration tools and procedures, multi-protocol clients and network/server security. PRE: IST 3332 D

4340 Network Security. Study of computer system security, computer network security, access control, security assessments and audits, cryptography, and organizational security. PRE: IST 3332. D.

4345 Disaster Recovery and Business Continuity. Study of information security and incident response and the creation of an effective disaster recovery/business continuity program which organizations can implement in case of computer network intrusions or other crises that cause a loss of physical plan, technology or human capital. PRE: IST 1301. D

4360 Senior Project. Use and further development of skills and concepts learned in courses taken during the first three years. Students will develop and complete a project for an individual or a community organization or business. PRE: senior status in IST or ISM and approval of the instructor. B

4380 Systems Analysis and Design. Studying all elements of the development and maintenance of an information system, from the first discussions with a user or group of users, to the final full implementation of the IS. PRE: senior status in IST or ISM. S

ChapDesk Practicum

1101, 1102 ChapDesk Customer Service. Fifteen hours of customer service training for computer software and hardware with thirty hours of practical experience working with customers at the ChapDesk. B

2101, 2102 ChapDesk Troubleshooting. Fifteen hours of training resolving hardware and software problems with thirty hours of practical experience working problem management at the ChapDesk. B

3102 ChapDesk Leadership. Sixty hours of practical experience leading an incident or problem management team at the ChapDesk. S

3201 ChapDesk Leadership. Thirty hours of management training with sixty hours of practical experience leading an incident or problem management team at the ChapDesk. F

(MAT) Mathematics

1302 Intermediate Algebra. Polynomial arithmetic, solving linear equations, inequalities, factoring and linear systems. B

1310 College Mathematics. Survey of mathematics, which includes the topics of reasoning, basic set theory, introductory logic, mathematical systems and number theory. D

1311 College Algebra. Basic algebra, linear and quadratic equations, inequalities, functions, and systems of equations. B

1312 Trigonometry. Trigonometry functions, identities, and applications. F

1313 Pre-Calculus. Elementary functions of calculus: linear, quadratic, polynomial, trigonometric, exponential, and logarithmic functions. B

1316 Business Calculus. Introduction to basic differential and integral calculus with business applications. PRE: MAT 1311. B

1402 Analytical Geometry and Calculus I. Functions, limits, continuity, differentiation, and definite integrals. S

1403 Analytical Geometry and Calculus II. Trigonometric and exponential functions, techniques and applications of integration, conic sections and polar coordinates. PRE: MAT 1402. F

2404 Analytical Geometry and Calculus III. Vectors, series, partial differentiation, and multiple integration, and line integrals. PRE: MAT 1403. S

3302 College Geometry. Study of Euclidean geometry by both the synthetic and metric development, introduction to analytical geometry. Pre: MAT 1311 or above. S

3303 Probability and Statistics. Elementary probability, random variables, testing of hypotheses, estimation, regression, and Markov processes. B

3305 Foundations of Mathematics I. Covers sets, logic, mathematical proofs, the real numbers from an axiomatic approach, cardinality of finite and infinite sets and number theory. F

3306 Differential Equations. Solution of ordinary differential equations with applications. PRE: MAT 1403. S

3350 Linear Algebra. Matrices, systems of equations, vector spaces, and linear transformations. PRE: MAT 1402. SO

3351 Intermediate Analysis. Sequences, limits, continuity, derivatives and integrals. PRE: MAT 2404. FO

3353 Numerical Analysis. Introduction to numerical methods and analysis involving non-linear equations, interpolation polynomials, numeric differentiation and integration, curve fitting, and approximation of functions. PRE: MAT 2404 or consent of instructor. FE

4350 Foundations of Mathematics II. Topics related to teaching of mathematics, including recent trends and developments, ideas and methods. B

4351 Modern Algebra. Concepts and methods of abstract algebra: groups, rings, integral domains, and fields. PRE: MAT 3305. D

(MGT) Management

3300 Principles of Management. Basic functions of management: planning, organizing, leading, controlling. Managerial roles, skills, and ethical responsibilities. B

3301 Organizational Behavior and Theory. Examines management of the complex relationships within an organization. Concepts of organizational theory are discussed. F

3320 Project Management. Explores the dimensions and elements of project management; concepts, methodologies, strategies, and structures. Attention will be given to cost controls, teamwork, and quality management. Students may focus on general business project management or information technology. PRE: IST 2300. S

4306 Human Resource Management. Focuses on the strategic role of human resources management in an organization. Specific attention is given to recruitment, selection, training, development, and compensation of employees from a managerial viewpoint. PRE: junior or senior standing. B

(MIN) Ministry

2311 Mission of God. Introduction to missions, broadly construed as Missio Dei. Teaches that ministry, whether the ministry of preaching, shepherding, evangelizing, counseling, or scholarship, should be in service to the mission of God. Students will be reminded that bringing social justice and healing to a broken world is central to God's mission in the world and should be central to each of our respective ministries. S

- 2322 Christian Spiritual Formation. Introduction to Christian spiritual formation traditions from the first to the twenty first century, with an emphasis on classical devotional literature, practices, and themes. PRE: Major, Junior standing. S
- 3301 Family and Congregational Dynamics. Study of the dynamics of family and congregational processes in light of family systems theory. Emphasizes the three families of the minister, relationships in staff and parenting, and implications for pastoral care. F
- 3303 Contemporary Issues in the Family. Study of current and relevant issues facing families in a post-Christian culture. Theology of family, intergenerational realities, life cycle issues, and preventative planning. FO
- 3368 Intermediate Studies in Ministry. Supervised intermediate research and writing in a specific area of the ministry. Specific semester topics will appear on the transcript. PRE: permission of instructor. D
- 4090 Practicum. Supervised internship in student area of ministry, culminating in a final, written report. Recommended for summer completion with fall enrollment. F
- 4302 Preaching Biblical Genres. Application of varied preaching forms to a selected biblical book or genres. PRE: BIB 2303. S
- 4342 Christian Ministry. Designed to help biblical studies majors move from the academic world into various ministry settings. Introduction to aspects of pastoral counseling and leadership development. Instruction on practical ministry situations, including funerals, weddings, and conflict. S
- 4368 Advanced Studies in Ministry. Supervised advanced research and writing in a specific ministry area. Specific semester topics will appear on the transcript. PRE: permission of instructor. D
- 6062 Comprehensive Examination. Comprehensive, written examination for a graduate degree. To be taken during the last term.
- 6228 Capstone and Comprehensive Examination. Capstone course where students demonstrate achievement of program goals and objectives. Includes written assignments, oral presentations, and comprehensive examinations. Taken in the last semester of enrollment. D
- 6301 Family Ministry. Study of family development and functioning in light of family systems with emphasis on the church's opportunity to minister in this context. D
- 6302 Hermeneutics. Study of the history of the application of hermeneutics to the biblical text with an emphasis on the current questions in biblical interpretation. FO
- 6303 Spiritual Formation. Study of Christian spirituality and the formation process rising from interaction with the Holy Spirit of God. Focuses on spiritual models, the spirituality of the minister, and the spiritual formation, which takes place through individual discipleship and in congregational settings. D
- 6304 Church Leadership. Study of church leadership focusing on personal leadership and congregational leadership. Attention will be given to the latest trends and models from administration, organization, and leadership theory. D
- 6305 Preaching. Principles and practices of homiletics with an emphasis on sermon preparation and delivery. D
- 6306 Advanced Preaching. Sermon development with emphasis on the study of expository, inductive, and narrative preaching. D
- 6307 Preaching Biblical Genres. Application of varied preaching forms to a selected book or genres of the Bible. D
- 6309 Christian Counseling. Application of counseling approaches to crisis situations in individual, family, and congregational life. D
- 6312 Studies in Ministry. Study and analysis of the latest trends and topics in ministry. D
- 6315 Advanced Studies in Youth and Family Ministry. Study of youth and family ministry in light of current research and cultural trends. D
- 6318 Church Growth. Study in evangelistic and congregational principles current with the latest literature addressing culture

and congregation. D

6323 Family Systems. Introduction to the concepts of family systems theory with application of this theory to family, church, and ministry. D

6325 Campus Ministry. Study in the latest trends and developments in campus ministry with emphasis on outreach to university students. D

6330 Internship I. Supervised internship in a specific ministry setting, including preparatory readings, practice in ministry skills, written reports, and ministry assessment. D

6360 Internship II. Supervised internship in a specific ministry setting outside of the minister's primary ministry context, such as hospice, community outreach, pregnancy counseling center, hospital chaplaincy. Include preparatory readings, practice in ministry skills, written reports, and ministry assessment. SU

6390 Practicum in Family Ministry. Supervised practicum in a family ministry setting, including preparatory readings, practice in ministry skills, written reports, ministry assessment, and family life education. SU

(MIS) Missions

2311 Introduction to Missions. Introductory study of mission needs, principles, and practices, as well as the missionary's life and work in the field. Foundational introductions on motivation for mission, message of mission, cultural adaptation, worldview, contextualization, church planting, and team relationships. F

2322 Missionary Anthropology. Culture, its different aspects, and how each component affects the identity of people in community. American culture will be examined in an effort to learn how to examine and understand other cultures. S

3302 The Gospel and Holistic Missions. Study of incarnational mission to the disenfranchised. Since biblical mission is holistic, contemporary mission efforts should include good news to the poor. Readings and discussions about topics in missions, such as sustainable community development, children at risk, refugees in conflict, community health, water development, "Farming God's Way," microfinance, and advocacy and social justice as a means to "fleshing out" the gospel. SO

3303 Living Globally. Study of issues students will encounter living and working internationally. Deeper preparation for cultural, linguistic, ethical, and financial differences. Also provides guidance on how to promote personal and familial health and education, spiritual formation and nurturing, furlough strategies, and technology options for communication, reports, and education. FO

4304 Imaging God. Study of how the life of Christ informs the Christian mission. Exploration of the saving work of God in light of the *Mission Dei*, the mission of God through a consideration of gospel themes, primary Pauline epistles, and eschatology. Examines the role of the ecclesia in the missional application of these saving graces of God with an eye toward what this should look like in the 21st century. SE

4312 Mission Team Dynamics. Study and preparation related to specific mission team relationships and goals. Includes brief survey of important characteristics of successful teams, followed by extensive self diagnostics to discover strengths and areas for improvement in team dynamics. Emphases will include self-reflection, prayer, team projects, research and writing, and guest speakers. PRE: Instructor permission. FE

4090 Practicum. Supervised internship in a specific missions area. Includes preparatory readings, practice in ministry skills, cultural study, written reports, and final assessment. Recommended for summer completion, with formal fall enrollment and presentation to faculty. PRE: Senior standing or chair approval. D

6312 Missions. Analysis of the latest trends and topics in missions. D

(MUS) Music

1000 Piano Proficiency Test. Demonstration of piano proficiency after four consecutive semesters of piano private lessons. Must pass test prior to beginning student teaching. B

1105 Sight Singing and Ear Training I. Music literacy through ear training, sight-singing, and dictation, taken concurrently with MUS 1305 Elementary Music Theory. F

- 1106 Sight Singing and Ear Training II. Music literacy through ear training, sight-singing, and dictation, taken concurrently with MUS 1306 Elementary Music Theory II. S
- 1123 Class Piano I. Beginning piano for students not specializing in the instrument. Students will receive two one-hour class lessons each week. D
- 1124 Class Piano II. Continuation of 1123. PRE: 1123 or equivalent. D
- 1203 Language Diction I. Functional study of diction in English and Italian. Students will learn to use pronunciation guides, transcribe songs, and demonstrate their skills with languages by singing songs in these languages. FO
- 1204 Language Diction II. Functional study of diction in German and French. PRE: MUS 1203. SE
- 1208 Fundamentals of Music Theory. Introduction to music theory, focusing on the basics of pitch, rhythm, key signatures, scales, intervals and basic triads with basic piano skills necessary for proficiency in Elementary Music Theory. Actual requirement to be determined by placement exam administered at the beginning of the first semester of enrollment as a music major. F
- 1301 Music Literature. Survey of music literature from 1450-present. Required of all music majors. Also serves as an introductory course appropriate for anyone wishing to study music appreciation. Emphasizes music listening skills accompanied by historical information. S
- 1305 Elementary Music Theory I. Music theory consisting of part-writing, sight-singing, keyboard, and aural skills. F
- 1306 Elementary Music Theory II. Continuation of 1305. PRE: 1305, 1105. S
- 2000 Music Seminar. Weekly meeting of music majors for performance and instruction. B
- 2105 Advanced Sight Singing and Ear Training I. Music literacy through ear training, sight-singing, and dictation, coinciding with MUS 2305 Advanced Music Theory, FO
- 2106 Advanced Sight Singing and Ear Training II. Music literacy through ear training, sight-singing, dictation, and transcription, coinciding with MUS 2306 Form, Analysis and Advanced Music Theory, SE
- 2129 Clarinet and Saxophone. Methods of woodwind performance practices, literature, and history while learning basic technique on the clarinet and saxophone. D
- 2130 High Brass. Methods of high brass performance practices, literature, and history while learning basic technique on the trumpet and french horn. D
- 2131 Low Brass. Methods of low brass performance practices, literature, and history while learning basic technique on trombone, euphonium, and tuba. D
- 2132 Percussion. Methods of percussion practices, literature, and history while learning basic technique on various percussion instruments. D
- 2133 String Methods. Methods of string performance practices, literature, and history while learning basic technique on violin, viola, cello, and bass.
- 2134 Flute and Double Reed. Methods of flute and double reed performance practices, literature, and history while learning basic technique on the flute, oboe, and bassoon. D
- 2139 Instrumental Methods for Vocal Majors. Study of teaching, playing, and care of string, woodwind, brass, and percussion instruments. Survey course intended for vocal music education majors. Must complete this course before enrolling in MUS 3230. FO
- 2305 Advanced Music Theory. Continuation of 1306. PRE: MUS 1306, 1106. F
- 2306 Form, Analysis and Advanced Music Theory. Continuation of 2305 with introduction to current techniques. Emphasis on form and analysis and taken concurrently with MUS 2106. S

- 3230 Orchestration. Ranges, transpositions, timbres, and individual characteristics of band and orchestra instruments through experience in scoring for small ensembles, full band, and orchestra. SO
- 3300 Survey of the Music of Worship. Change course description to: Equips students to serve in their churches as worship leaders, active participants of worship committees, or in other capacities pertaining to worship. Includes an overview of the history of church music, a study of the impact of music on a worship assembly, a discussion of Biblical criteria for music as a part of worship, and an overview of contemporary worship practices across the various Christian denominations. Specific expertise and experience in music is not required. D
- 3303 Music History I. Chronological study of music history and literature from classical antiquity to 1685. FE
- 3304 Music History II. Chronological study of music history and literature from 1685 to the present. SO
- 3305 Vocal Pedagogy. Survey of the vocal mechanism and the breathing apparatus and their interdependence. Teaching techniques in phonation, resonance, register, articulation, and breathing. Includes a study of the literature or standard operatic repertoire from the 17th-20th centuries from Italy, France, Germany, England, and the United States. SO
- 3306 Piano Literature. Chronological study of classical keyboard literature from the 18th-20th centuries, approached by style period, composer, and pedagogical value. D
- 3307 Piano Pedagogy. Review of current piano methods, observation of privately operated studios, class piano labs, and opportunities for practice teaching. D
- 3308 Marching Band Techniques. Methods and techniques of organizing and directing a school band program by focusing on history, planning, writing, and rehearsing of a marching band. D
- 4000 Senior Recital. Senior recital to be taken concurrently with the final semester of private instrumental or vocal study; provides an accompanist if needed, special lighting, recording, and programs for the senior recital. Fee: \$125. B
- 4105 Advanced Instrumental Conducting. Development of advanced conducting and rehearsal techniques for instrumental ensembles. Emphasis will be placed on the study of stylistic instrumental literature. Students will experience conducting live rehearsals in university ensembles. Ensemble membership required. PRE: MUS 4204. D
- 4106 Advanced Choral Conducting. Development of conducting and rehearsal techniques for choral or instrumental ensembles. Emphasis will be placed on the study of stylistic choral or instrumental literature. All students will gain experience conducting live rehearsals for active university ensembles. Ensemble membership required. PRE: MUS 4204. D
- 4204 General Conducting. Study of the development of basic skills for conducting musical organizations with practice in score reading and interpretation. PRE: MUS 1306, 1106. D
- 4311 Secondary Choral Methods. Study of choral teaching methods on the secondary level, with emphasis on choral literature, particularly those pieces on the UIL lists. D
- 4312 Secondary Instrumental Methods. Organizational skills, management techniques, and instructional methods necessary for maintenance of a large performance ensemble. D
- 4320 Elementary Music Methods. Basic elements of music with appropriate techniques for teaching children the principles of singing, playing, listening, and moving to music. F
- 4360 Senior Seminar. Capstone course required of all music majors. A review of music theory, history, and literature. Students intending to attempt the TExES music teacher certification exam, must score at least an 80 on the final exam. Other students must score at least a 70 on the final exam. D

(MUS) Music Ensembles

- 1101, 1102, 2101, 2102, 3101, 3102, 4101, 4102 Chamber Singers. Open to majors and non-majors, subject to approval of director on the basis of vocal qualification, personal attributes, and balance of parts in the organization. B
- 1103, 1104, 2103, 2104, 3103, 3104, 4103, 4104 Praise Choir. Open to majors and non-majors, subject to approval of director on the basis of vocal qualification, personal attributes, and balance of parts in the organization. Fee for 1103, 2103, 3103, 4103 \$60. B

1107, 1108, 2107, 2108, 3107, 3108, 4107, 4108 Symphonic Band. Open to majors and non-majors who play appropriate instruments adequately, subject to director's approval. B

1109, 1110, 2109, 2110, 3109, 3110, 4109, 4110 Chamber Ensemble. Open to majors and non-majors who play woodwind, string instruments or piano/harpsichord or other instruments, subject to audition and director approval. B

1135, 1136, 2135, 2136, 3135, 3136, 4135, 4136 Jazz Ensemble. Open to majors and non-majors who play appropriate instruments adequately, subject to director's approval. B

1137, 1138, 2137, 2138, 3137, 3138, 4137, 4138 Best Friends. Vocal ensemble open to all students, subject to audition and director approval. PRE: One year of Praise Chorus which can be taken concurrently in first year of Best Friends. B

1141, 1142, 2141, 2142, 3141, 3142, 4141, 4142 University Chorus. Open to majors and non-majors, for the purposes of improving the voice for both solo and choral singing. Fundamentals of proper singing technique will be emphasized, and appropriate literature will be performed in at least one concert per semester. B

1151, 1152, 2151, 2152, 3151, 3152, 4151, 4152 Forte. Vocal ensemble open to all students, subject to director approval. B

(MUS) Music Private Lessons

1111, 1112, 2111, 2112, 3111, 3112, 4111, 4112 Voice. One-credit hour private lessons courses include one 30-minute private lesson per week. One 30-minute private lesson per week. Fee \$300. B

1211, 1212, 2211, 2212, 3211, 3212, 4211, 4212 Voice. Two-credit hour private lesson courses include one 1-hour private lesson per week. Reserved for music majors. Fee \$450. B

1113, 1114, 2113, 2114, 3113, 3114, 4113, 4114 Piano. One-credit hour private lessons courses include one 30-minute private lesson per week. Fee \$300. B

1213, 1214, 2213, 2214, 3213, 3214, 4213, 4214 Piano. Two-credit hour private lesson course includes one 1-hour private lesson per week. Reserved for music majors. Fee \$450. B

1115, 1116, 2115, 2116, 3115, 3116, 4115, 4116 Guitar. One-credit hour private lessons course includes one 30-minute private lesson per week. Fee \$300. B

1215, 1216, 2215, 2216, 3215, 3216, 4215, 4216 Guitar. Two-credit hour private lesson course includes one 1-hour private lesson per week. Reserved for music majors. Fee \$450. B

1117, 1118, 2117, 2118, 3117, 3118, 4117, 4118 Strings. One-credit hour private lessons course includes one 30-minute private lesson per week. Fee \$300. B

1217, 1218, 2217, 2218, 3217, 3218, 4217, 4218 Strings. Two-credit hour private lesson course includes one 1-hour private lesson per week. Reserved for music majors. Fee \$450. B

1119, 1120, 2119, 2120, 3119, 3120, 4119, 4120 Brass. One-credit hour private lessons course includes one 30-minute private lesson per week. Fee \$300. B

1219, 1220, 2219, 2220, 3219, 3220, 4219, 4220 Brass. Two-credit hour private lesson course includes one 1-hour private lesson per week. Reserved for music majors. Fee \$450. B

1121, 1122, 2121, 2122, 3121, 3122, 4121, 4122 Woodwinds. One-credit hour private lessons course includes one 30-minute private lesson per week. Fee \$300. B

1221, 1222, 2221, 2222, 3221, 3222, 4221, 4222 Woodwinds. Two-credit hour private lesson course includes one 1-hour private lesson per week. Reserved for music majors. Fee \$450. B

1125, 1126, 2125, 2126, 3125, 3126, 4125, 4126 Percussion. One-credit hour private lessons course includes one 30-minute private lesson per week. Fee \$300. B

1225, 1226, 2225, 2226, 3225, 3226, 4225, 4226 Percussion. Two-credit hour private lesson course includes one 1-hour private lesson per week. Reserved for music majors. Fee \$450. B

1127, 1128, 2127, 2128, 3127, 3128, 4127, 4128 Harpsichord. One-credit hour private lessons course includes one 30-minute private lesson per week. Fee \$300. B

1227, 1228, 2227, 2228, 3227, 3228, 4227, 4228 Harpsichord. Two-credit hour private lesson course includes one 1-hour private lesson per week. Reserved for music majors. Fee \$450. B

(NRC) Natural Resources Ecology and Conservation

1300 Introduction to Wildlife Management. Introductory course dealing with factors involved in managing wildlife populations to benefit species and habitat from both an environmental and commercial perspective. F

2300 Environmental Systems. Principles of natural systems; ecosystems structure, function and management. S

2301 Natural Resources and Agriculture. Study of existing and emerging strategies for the compatibility of intensive production agriculture and stewardship of natural resources. Field trips will be required. F

3322 Natural Resources Policy, Regulation, and Compliance. Roles of governmental agencies, private organizations, and the public associated with the creation and implementation of natural resources policies. Major themes include strategies for compliance and conflict resolution. SO

3323 General Ecology. Survey of ecological principles emphasizing the integral relationships of plants and animals. Field trips required. Fee \$100. (2:3) F

3325 Aquatic Ecology and Conservation. Detailed study of the physical, chemical, and biological interactions that occur in aquatic environments. Past, present, and future threats to the natural functioning of aquatic environments is addressed. FO

3333 Geographic Information Systems. Introduction to geographic information systems software and applications. Emphasis placed on applications to natural resources management and conservation. D

4200 Senior Seminar. Seminar in natural resources ecology and conservation. S

4314 Conservation Biology. Detailed study of the fundamental principles governing biodiversity. Topics include extinction, colonization, genetic diversity, island biogeography, consequences of globalization, and the overall value of biodiversity. Students will explore the application of theory to contemporary practical conservation problems. SE

4330 Natural Resources Internship. Internship in natural resources. Y

4405 Wildlife and Fisheries Science. Scientific study of the ecology and management of fish and wildlife resources. Designed to provide students significant hands on experience with the techniques of fish and wildlife professionals. Major topics include sampling techniques, species identification, population assessment, data analysis, and interaction with the public. Fee \$100. FE

(NUR) Nursing

3200 Introduction to BSN. Introduction to the concepts of baccalaureate nursing, including the validation process for diploma and associate degree nursing. Students are introduced to resources for degree completion. To be taken in semester of entry. Y

3214 History and Theory of Nursing. Emphasizes the historical development of the discipline of nursing, the integration of nursing theories into practice, and explores other ways of knowing as applied to the understanding of nursing practice. Y

3313 Cultural Diversity. Examines health care practices and beliefs in a variety of cultures. Political, economic, spiritual and geographic factors effecting health care are explored within the context of cultural systems and the patient's perception of health, illness and care. Y

3314 Trends and Issues in Professional Nursing. Explores and relates current trends and issues in nursing to health care in today's society. Examine changes in health policies and systems. Y

3413 Cultural Diversity. Examines health care practices and beliefs in a variety of cultures. Political, economic, spiritual and geographic factors effecting health care are explored within the context of cultural systems and the patient's perception of health, illness and care. Y

- 4305 Community Health II. Application of concepts of prevention and population focused interventions to promote health. Participates in assessment and analysis of determinants of health within a population. Ninety practicum hours. Y
- 4311 Nursing Research. Explores the research process and its relevance to nursing practice. The primary focus is on the development of the student's ability to be an effective consumer of research with emphasis on nursing theories and the research process. Y
- 4314 Leadership and Management I. Explores health care delivery systems and how they function, emphasizing first level leadership and management roles. Examine selected management theories and models and their relationship to nursing management. Y
- 4315 Nursing Informatics. Explores the various uses of informatics in nursing practice and the healthcare setting including current technology initiatives and big data, use of informatics in a variety of healthcare settings, decision support systems, and the potential impact of technology on nurse-patient relationships. Y
- 4316 Leadership and Management II. Application of leadership principles in a variety of health care settings. Collaborating with other health care team members to promote safety and high quality nursing care. Ninety practicum hours. Y
- 4318 Professional Role Development. Explores nursing as a profession and the critical issues of professional nursing practice. The course is designed as the synthesis of prior knowledge toward pursuing practice excellence and to foster lifelong professional growth and development. Y
- 4320 Comparative Health Systems. Explore health care and health provider roles in other countries through on-location learning. Offers a historical perspective as well as the progression of health care and nursing roles in another country. Y
- 4403 Community Health I. Emphasize the social, spiritual, educational, and cultural factors that impact health care for individuals, families, communities, and populations. Examines roles of nurses in collaboration with other healthcare professionals to provide care within the community. Y
- 5101 Advanced Practice Nursing and Forensics: High Risk Populations. Provides the advanced practice nurse with information needed for prevention, assessment, identification, appropriate intervention, and resource referral for patients and families who are at risk for, or currently experiencing, abuse or neglect. F
- 5200 Introduction to Graduate Studies. Provides an orientation and introduction to graduate level study. A focus on electronic database searching and utilization of community-wide library resources, APA style and introduction to writing for publication, accessing and utilizing technology for online courses, and the professional portfolio will be initiated in this course. To be taken the semester of entry to the program. Y
- 5202 Family Nurse Practitioner Role, Leadership, and Theory. Examines the professional history and evolution of the family nurse practitioner. Discussion of legal parameters that govern advanced practice and the role of the nurse practitioner in providing cost-effective care. The fostering of a leadership role in collaborating with multiple stakeholders to improve health safety, accountability, and quality outcomes is emphasized, as well as, evaluation of nursing theories that are the foundation of the APN role. S
- 5204 Advanced Diagnostics and Procedures. Examine the appropriate use and interpretation of advanced diagnostic tests available to the nurse practitioner in primary care. Various invasive skills common to the primary care setting will be introduced allowing students the ability to develop a basic proficiency. S
- 5301 Education: Theories in Teaching and Learning. Teaching and learning principles and theories of adult learning and educational processes provide the foundation for this course. Scholarly inquiry into multiple dimensions of the role of professional educator and leader are examined. The management of educational activities, staff development, curriculum planning, design, and evaluation, and the facilitation of learning in a variety of settings are addressed. B
- 5302 Research and Statistical Methods. Provides practical skills to translate practice problems into researchable questions. Examination of quantitative and qualitative research methods, data collection, selection of measurements, and statistical analyses are considered. Students will develop a research proposal from significances to determination of the research plan. Fee \$50. Y
- 5303 Education and Information Technology Applications. Study of theoretical and practical characteristics of technology integration strategies, including using instructional software, using technology media, and integrating technology into the

curriculum or practice environment in the role of nurse educator or leader are explored. Y

5304 Management of Health Care Resources. Economic and resource management, financial planning and budgeting, reimbursement systems in health care, cost containment, spreadsheets and human resource management for the nurse in an advanced role of educator or leader/administrator across health care settings comprise the focus of this course. Y

5305 Nursing Theory. Examines historical and contemporary theoretical bases for advanced nursing practice. Analysis of selected models and theories from nursing and other disciplines are considered in the context of traditional, alternative, and complementary approaches to health promotion, disease prevention, and human responses to illness at the level of individual, family, and community. The concepts of person, health, environment, spirituality, and nursing are explored. B

5306 Global Culture and Health I. Travel to a selected country to experience the spiritual dimension of health care delivery, nursing education, and the role of nurses in a culturally diverse setting. The course offers a transcultural experience outside the U.S. Learning takes place through observation, experience, interaction, and critical thinking via on site visits and by reviewing current nursing and general literature. The course is designed to enhance the development of critical thinking and communication skills at on-site locations. University faculty and resource persons in the selected country will make arrangements for the desired experiences. Ninety practicum hours. Fee varies depending on global experience and costs associated with experience. Check with department prior to enrolling. Y

5307 Applying Best Practices in Community Health Care. Examines applications of research-based practices to policy and nursing care decisions and delivery at the organizational, community, state, and national level. Research applications of solving practical organizational and system problems, quality and outcome indicators, reducing medical errors to produce a safer health care system with a major emphasis on community is the focus of this course. Students will propose a grant or quality improvement plan to improve a practice issue in the workplace. Ninety practicum hours. Y

5308 Global Culture and Health II. Travel to a selected country to experience the spiritual dimension of health care delivery, nursing education, and the role of nurses in a culturally diverse setting. The course offers a transcultural experience outside the U.S. Learning takes place through observation, experience, interaction, and critical thinking via on site visits and by reviewing current nursing and general literature. The course is designed to enhance the development of critical thinking and communication skills at on-site locations. University faculty and resource persons in the selected country will make arrangements for the desired experiences. Ninety practicum hours. Fee varies depending on global experience and costs associated with experience. Check with department prior to enrolling. Y

5309 Leadership and Management. Focuses on the analysis, application, and integration of 21st century leadership and management skills into the behavior of the nurse in the role of educator and leader. Practical organizational and problem-solving skills, resource management and development, collaboration, team building, and effective communication are emphasized. Y

5310 Education/Leadership Capstone Practicum. Application of program course work occurs in this capstone course in which students participate in field experience with a preceptor where they practice in the advanced role of nursing educator and leader in a selected field experience. Within the didactic sessions for this course, particular attention is given to the discussion of Best Practices in Education and Leadership. The course culminates in the presentation of the professional portfolio. Ninety practicum hours. Y

5311 Professional Issues: Law and Ethics. Examines the professional, ethical, legal, political, and social dimensions of developing an identity as an advanced practice nurse within the context of nursing practice, institutional, and community environments. Issues of health disparity, cultural diversity, and the health needs of underserved populations are examined. Further areas of consideration will include professional standards and certification, code of ethics, bioethical issues, confidentiality, plagiarism, and liability, regulatory, and collective bargaining considerations. Y

5312 Advanced Physiology/Pathophysiology. Overview of advanced concepts related to normal and abnormal body functioning. The primary focus is on in-depth and current understanding of disease processes across the lifespan integrating risk factors for disease in various populations. F

5313 Pharmacotherapeutics. Focuses on the clinical application of pharmacology needed in the provision of advanced practice nursing. The emphasis is on drugs commonly used in the family practice of ambulatory primary health care setting for the treatment of acute and chronic disease, and on the integration of drug therapy as one component of therapeutic management plans. The application of the principles of pharmacodynamics and pharmacokinetics to clinical use of drugs will be explored, including therapeutic dosage patterns, side effects, drug interactions, contraindications. F

5334 Advanced Health Assessment. Includes 90 clinical hours. Provides student with ability to expand their knowledge and skills in performing a comprehensive health assessment of patients across the lifespan. Emphasis placed on utilizing thorough assessment to distinguish normal and abnormal variants in health, guide health promotion activities, and identify the need for patient-specific disease prevention interventions. Fee: \$984. S

5338 Advanced Nursing Care: Pediatric. Focuses on the appropriate diagnosis, management, and prevention of common acute and chronic illnesses specific to the pediatric population. Human growth and development, holistic, and spiritual concepts will be incorporated. SU

5341 Advanced Nursing Care: Adult/Geriatric. Focuses on the appropriate diagnosis, management, and prevention of common acute and chronic illnesses specific to the adult and geriatric populations. Human growth and development, holistic, and spiritual concepts will be examined. F

5344 Advanced Nursing Care: Women/Prenatal Primary Care. Includes 90 clinical hours. Application of advanced health assessment skills, identification of abnormalities in health, interpreting diagnostic findings, improving communication skills, formulating a diagnosis and plan of care, and implementing preventative and health promotion education in a focused practice environment. S

5361 Interpersonal and Counseling Skills in Human and Organizational Behavior. Provides an introduction to understanding and developing effective interpersonal communication skills and relationships in the role of educator and leader/administrator. The processes, principles, and techniques associated with counseling the individual and groups, negotiating, grievance, stress management, and group dynamics are explored in this course. Conflict and conflict resolution, interviewing, listening, and group leadership skills are examined. SU

5640 Clinical Practicum: Primary Care Pediatrics. Includes 270 clinical hours. Application of concepts presented in Advanced Nursing Care with focus on refining health assessment skills, identifying abnormalities in health, interpreting diagnostic findings, improving communication skills, formulating a diagnosis and evidenced-based plan of care, and implementing preventative and health promotion education in culturally diverse populations. S

5643 Clinical Practicum: Primary Care Adult/Geriatric. Includes 270 clinical hours. Application of concepts presented in Advanced Nursing Care with focus on refining health assessment skills, identifying abnormalities in health, interpreting diagnostic findings, improving communication skills, formulating a diagnosis and plan of care, and implementing preventative and health promotion education in culturally diverse populations. F

6300 Evidence-Based Project. Culmination of program course work occurs in this course in which students participate in a community based field experience reflecting the role of the family nurse practitioner. Pending faculty approval, each student will develop and present an evidence-based project based on the needs of an identified population. This course is the capstone practicum experience for the family nurse practitioner track. S

(PFP) Personal Financial Planning

3300 Financial Stewardship. Personal finances from the perspective of becoming a responsible steward. Topics covered will include budgeting, savings, investing, giving, and managing money. PRE: FIN 2301. Fee \$100. F

3310 Retirement Planning. Foundational course in retirement planning. PRE: FIN 2301. S

3320 Insurance Planning, Risk Management, and Employee Benefits. Fundamentals of risk management and insurance, including the nature and treatment of pure loss exposures; legal principles; and property, liability, life and health insurance. PRE: FIN 2301 and FIN 3300. F

4310 Estate Planning and Taxation. Foundational course in estate planning methodologies and policies related to tax issues. PRE: FIN 2301 and ACC 4305. SO

4320 Securities Analysis and Asset Allocation. Focuses on the theory and practice of asset allocation. Topics covered include setting investment goals, risk tolerance, diversification and risk reduction, basic security valuation and analysis, capital markets, investment alternatives, and fundamentals of portfolio design. PRE: FIN 2301 and FIN 4309. SO

4380 Case Studies in Financial Planning. Integrates the financial planning content areas into the development of comprehensive financial plans. PRE: FIN 2301 and PFP 4320 or concurrent enrollment in PFP 4320. D

(PHI) Philosophy

2304 Introduction to Philosophy. Introduction to philosophy and a review of the history of Western thought. Course considers the nature of knowledge, truth, worldview, and the use of rhetoric in philosophy. SE

3303 Plato. Introduction to the Republic, the seminal work in the Western tradition, as an introduction to Platonism and to all the familiar themes of Western philosophy, and particularly justice, government, and political philosophy. FE

3304 Augustine and Aquinas. Advanced introduction to the thought and influence of the two major Christian thinkers in medieval Western history. Students will engage Augustine's Confessions and City of God, and selected portions of Aquinas' Summa Theological, with a view to the thinkers' influence on Western philosophy and theology. SE

3305 Ethics. Study of ethical theory from the perspectives of philosophy and Christian theology, with an emphasis on application to contemporary issues in medicine, business, politics, and society. B

3310 Aristotle's Ethics. Introduction to the classic work in Western ethics, including understanding Aristotle's originary concern with phenomena and terms, like ethics-we now, following him, take for granted, virtue, character, morals, the good, and the truly or fully human life, with emphasis on development of our own character, excellence, and happiness. FO

4306 Philosophy of Religion. Study of religious knowledge and experience, faith and reason, the concept and arguments for God, and the problem of evil. FE

6312 Studies in Philosophy. Examination of key philosophies and philosophers with an emphasis on the Classical Western Philosophic tradition. D

(PHY) Physics

1103 General Physics I Lab. Experiments in mechanics and wave motion. CO: PHY 1303. F

1104 General Physics II Lab. Electricity and optics. CO: PHY 1304. S

2101 Engineering Physics I Lab. Mechanics, wave motion. CO: PHY 2301. F

2102 Engineering Physics II Lab. Optics, electricity, and magnetism. CO: PHY 2302. S

1303 General Physics I. Non-calculus introduction for science majors other than those in physics, chemistry, or engineering. Covers mechanics and wave motion. PRE: MAT1311 or more advanced. CO: PHY 1103. F

1304 General Physics II. Primarily electricity, magnetism, and optics. CO: PHY 1104. S

2301 Engineering Physics I. Calculus-based course for students in physics, chemistry, engineering, and mathematics. Includes mechanics, thermodynamics, and wave motion. CO: PHY 2101. F

2302 Engineering Physics II. Optics, electricity, magnetism, and some nuclear physics. CO: PHY 2102. S

(PSY) Psychology

1300 General Psychology. Introductory course concerning the major theories and recent research in the broad field of psychology. B

2310 Lifespan Human Development. Physical and psychological development of the individual from infancy through adulthood. B

2340 Psychology of Diversity. Survey of the nature and characteristics of diverse populations from a historical perspective and current perspective. In addition, insight and understanding of social relationships in a culturally diverse society are examined. B

3300 Child and Adolescent Development. Study of physical, intellectual, social, and psychological development from birth through adolescence. Does not count toward the major. B

3301 Introduction to Counseling Professions. Introduction to the practices of psychologists, professional counselors, and marriage and family therapists. In addition to training in basic helping and interviewing skills, this course will survey career

opportunities, ethical issues, and professional issues associated with the various helping professions. F

3302 Counseling Theories and Techniques. Study of the major models and theories of psychotherapy. Special attention will be given to developing basic therapeutic skills associated with these theories. PRE: PSY 1300. S

3303 Abnormal Psychology. Study of the etiology and the nature of individual abnormalities. Some attention is given to the measurement and therapy of various abnormalities. B

3304 Adolescent Psychology. Application of developmental theory and cultural contexts to the understanding of persons in transition to adulthood. Does not count toward the major. S

3310 Psychological Statistics. Introduction to descriptive and inferential statistics from the T test to Chi square. Includes introduction to analysis of variance, multiple regression, and non-parametric techniques. Fee \$50. B

3315 Ethics in the Helping Professions. Focuses on the professional practices and ethics in the helping profession as well as the legal aspects of providing professional services in helping professions. Students learn to manage themselves and their professional practice to be both legal and ethical. F

3320 Social Research Methods. Introduction to the major steps of scientific inquiry into social relations. Emphasis will be placed on survey design and analysis. PRE: PSY 1300 or SWK 2300. S

3322 Gender and Sexuality. Human gender and sexuality from a life cycle perspective, with an emphasis on developmental, familial, and societal factors that influence gender and sexuality. S

3324 Marital and Family Therapy. Introduction to the major models of marriage and family relations, dysfunctions and techniques of intervention. S

3326 Crisis Intervention. Study of crisis situations in multiple settings with emphasis on appropriate behaviors and responses to crisis. Applied therapeutic counseling in general and crisis intervention specifically are presented, along with strategies to alleviate crisis and deal with crisis aftermath. S

3327 Physiological Psychology. Introduction to the nervous system, brain and behavior, neuroanatomy, genetics, neurological basis of learning, cognition, sensation, memory, motivation, and abnormal behavior. D

3350 Psychology of Aging. Theory and research on aging, covering demographic, sociocultural, economic, individual, and social factors. S

3381 Social Psychology. Study of the impact of society and the individual's effect on significant and social institutions. F

4302 Theories of Personality. Introduction to the theories and methods of the study of personality, with emphasis upon the dynamics of personality development. PRE: PSY 1300 or consent of professor. B

4304 Psychological Testing. Provides means of securing, recording, and using test data concerning individuals and groups. Emphasis is given to practical experience in using tests, inventories, and other devices for psychological measurement. PRE: PSY 1300. S

4305 Experimental Psychology. Survey of experimental methods employed in the study of human behavior. Special attention is given to the sensory systems, perception, and learning. Required laboratory is graded with the course. F

4307 Learning, Cognition and Emotion. Study of the principles of learning, cognition and emotion, and their applications to the understanding of human development and personality. PRE: PSY 1300. F

4321 Forensic Psychology. Study of the intersection of crime, law, and psychology. Emphasis will be placed on understanding how abnormal behavior is treated in the judicial system, as well as civil commitment and criminal competencies. F

4322 Drugs, Alcohol, and Behavior. Survey of psychological factors involved in drug use and an introduction to chemotherapy used in treatment of mental illness. S

4390 Practicum. Participation in a departmentally approved structured and supervised setting to give an introductory experience to the field of psychology. Each student participating in a field experience MUST purchase professional liability insurance through the university. Students who are not psychology majors may take the course with departmental approval.

Course may be repeated for credit with departmental approval. Students in this course will be encouraged to become members in a professional behavioral science organization such as ACA, NCFR, APA, or AACA. Fee \$300. B

(REA) Reading

3330 Literacy and the Young Child. Developmentally appropriate techniques and materials designed to assist young children in pre-reading and the transition to beginning reading. Includes field experience. B

3340 The Reading Writing Connection. Theories and strategies for developing communication skills and reasoning abilities. Emphasis will be on the integration and application of listening, speaking, writing, and thinking skills throughout the curriculum. Students will spend a minimum of 12 clock-hours observing and teaching in an elementary/middle school setting. B

4350 Practical Applications to Reading. Organization and use of content, learning experiences, and resources for teaching reading in the elementary school. B

4360 Reading Across the Curriculum/Practicum. Theories and strategies for teaching and integrating reading strategies throughout the elementary/middle school curriculum. Emphasis will be placed on developing and delivering a one-week content area unit. Students will spend a minimum of 10 clock hours in their assigned classroom before beginning the unit. B

(REL) Religion and Theology

3301 World Religions. Study of the history, literature, and practices of the living major world religions. F

3311 Topics in Theology. Examine theological thinking, types of theology, and important theological issues. F

3312 Syro-Palestinian Archeology. Dynamics of the interplay of history, religion, and culture through the philosophy and science of Near Eastern archeology. Students encounter concepts of worldview, morality, religion, and culture. D

3368 Intermediate Studies in Religion/Theology. Supervised intermediate research and writing in a specific religion or theology area. Specific semester topics will appear on the transcript. PRE: permission of instructor. D

6110 Restoration History and Theology. Readings in the history and theology of the Stone-Campbell movement and study of the heritage of churches that have emerged from that religious tradition. D

6301 World Religions. Study of the major world religions (Hinduism, Buddhism, Judaism, Islam, and Christianity), using historical, sociological, phenomenological, and comparative theological methodologies. While all religions are studied, specific emphases may be given to certain regions, religious subsets, themes, and/or teachings. D

6312 Studies in Theology. Analysis of specific theological trends and current religious thought. D

6333 Ethics. Study of ethical decision making with an emphasis on the historical development of ethical and Christian thought. D

6334 Christian History and Theology I. Study of major events, people, and historical and theological developments in Christian history ranging from the emergence of the Christian church reflected in the New Testament to the late Medieval period. D

6335 Christian History and Theology II. Study of major events, people, and historical and theological developments in Christian history ranging from the 16th century period of Reformations to the contemporary setting. D

(SOC) Sociology

1300 General Sociology. General introduction to sociology, including the relationships of the individual to the society and culture of which the person is a part. B

(SWK) Social Work

2300 Introduction to Social Work. Introduction to social work, including a definition of the term itself, a look at the history of social welfare, and a review of the knowledge, values, and skills required of the social work professional. A description of various social work services is provided by speakers from several agencies in the community. B

2320 Social Justice. Analysis of social injustices in contemporary society and an examination of possible policy changes to

alleviate the injustices. Designed for both social work and other majors. Y

2340 Diversity. Overview of diverse populations. Insight and understanding of social relationships in a culturally diverse society are examined. Cultural competency in social work is emphasized. Y

3301 Generalist Practice with Individuals and Families. Study of the values, skills, knowledge, and ethics needed for generalist social work practice with individuals and families. B

3302 Generalist Practice with Communities and Organizations. Study of the skills, knowledge, and ethics needed for generalist social work practice with organizations, communities, and society. B

3303 Generalist Practice with Groups. Study of the skills, knowledge, and ethics needed for generalist social work practice with small groups. B

3304 Social Welfare Policy. Study of social values and philosophical approaches for social welfare policies. Analysis of legislative process, policies, and programs affecting the social worker. B

3306 Social Work Ethics and Professional Behavior. Provides a foundation for ethical decision making in social work practice. Theoretical perspectives and models on ethical decision making, professional ethics, ethical dilemmas and values are explored. Expectations for professional behavior in the field of social work is emphasized. B

3310 Statistics. Introduction to descriptive and inferential statistics from the T test to Chi square. Also includes introduction to analysis of variance, multiple regression, and non-parametric techniques. Fee \$50. S,SU

3311 Human Behavior in the Social Environment. Examination of life cycle from birth to death. Focuses on the biological, psychological, sociological, and theoretical perspectives of the lifespan. Attention given to individuals, groups, organizations, and communities. Includes emphasis on diversity, culture, systems, ecological theory, strengths perspective, and empowerment. B

3313 Interventions with Older Adults. Examines older persons and their social service needs. Special attention given to social work practice with elderly and their social service, family and community needs. SU

3314 Family and Community Violence. Examines community, school, family, and workplace violence, including identification, classification, prevention, and case management. Encompasses the enormity of violence through a comprehensive, biophysical perspective. SU

3315 Social Work in Criminal Justice Settings. Provides an overview of the criminal justice system and forensic social work. Explores broader perspectives that have guided and shaped policy in criminal justice, historical trends in criminal justice, and current issues being dealt with at all levels of the criminal justice system. Addresses effective social work practice with juveniles and adults in the community and institutional settings. Emphasis placed on the role of the social work practitioner in the supervision, treatment, and rehabilitation of the population they serve. D

3316 International Social Work. Study of international social work profession and global social issues. D

3320 Social Research Methods. Introduction to the major steps of scientific inquiry into social realities. Emphasis will be placed on survey design and analysis as well as evaluating one's own practice. F,SU

3330 Maladaptive Functioning. Study of the etiology and the nature of mental health disorders. Special attention is given to generalist social work processes in relation to social functioning. B

4610 Field I. Field work in an agency under supervision for 200 clock hours. Focus is on integration of knowledge with actual social work experience. PRE: 2.5 GPA in SWK 3301, 3302, 3303. FEE: \$100. B

4620 Field II. Field work in an agency under supervision for 200 clock hours. Focus is on integration of knowledge and actual social work experience. PRE: 2.5 GPA in SWK 3301, 3302, 3303, completion of or concurrent enrollment in SWK 4610. B

(THA) Theatre Arts

1161 Theatre Activities I: Scenery and Properties. Extensive participation in theatre activities in construction of scenery and of properties. F

- 1162 Theatre Activities II: Lighting and Sound. Extensive participation in theatre activities in setting and running lighting and sound cues for a production S
- 1361 Introduction to Acting. Study of basic theories and techniques of the art of acting, with emphasis on character analysis and improvisation. F
- 2161 Stage Makeup. Learning to design and apply makeup for a theatrical production. F
- 2302 Principles of Acting. Study and application of the theories and techniques of the art of acting. PRE: THA 1361. S
- 3301 Principles of Theatrical Scenery. Study of technical problems of play production: design, construction, and painting of scenery and properties and special effects. FO
- 3304 Principles of Theatrical Lighting. Study of the theory and practice of theatrical stage lighting: elementary electricity, lighting control and instruments, and lighting design. SE
- 3305 Principles of Theatrical Costumes. Study and application of the theories and techniques of theatrical costuming: survey of historical dress, design for the stage, and construction of theatrical clothing. FE
- 4301 Stage Directing Methods. Study and practice of fundamental principles and techniques of directing, including student direction of representative plays. PRE: Junior standing, THA 2302, 3301, 3304 and 3305. FE
- 4304 History of Theatre I. Survey of the history of theatre—the origins of theatre to 1800. SO
- 4305 History of Theatre II. Survey of the history of theatre, 1800 to the present—Contemporary Theatre. SE
- 4324 Studies in Shakespeare. Analysis of the development of Shakespeare’s art and thought as viewed through his better known plays. SO
- 4326 Literature and the Film. Review of film theory, film history, and the development of film making, with an emphasis on criticism of filmed adaptations of significant works of literature. S
- 4365 Creative Dramatics. Studies in the principles and methods of using creative dramatics teaching elementary school subjects. F
- 4368 Play Direction. Study and practice of basic principles and techniques that deal with choosing, casting, and staging a play. PRE: Junior standing and THA 4301 consent of the instructor. SO

(UGR) Undergraduate Research

2188, 3188, 4188, 2288, 3288, 4288, 2388, 3388, 4388, 2488, 3488, 4488, 2688, 3688, 4688 Undergraduate Research. Undergraduate research supervised by academic department. Undergraduate research for credit must not be directly associated with other course requirements. Undergraduate research may, at the discretion of the academic chair, be added to the degree plan increasing the total hours required to complete the degree. A maximum of 6 undergraduate research credit hours may be earned. PRE: approval of academic chair. D

(UNI) University Studies

1170 University Seminar. Introduction to an academic field. Provide assistance in transition into a major program. B

2000 University Skills. Measures college-level core competencies necessary for success in upper level course work. PRE: Completion of general core. B

(WSH) Washington Internship

4660, 4960 Washington Internship. Internship in Washington, D.C. Significant fee applies, some of which may be offset by funded scholarship. PRE: Permission of Washington Program Director. D

(YFM) Youth and Family Ministry

2311 Foundations of Children, Youth and Family Ministry. Introduces students to the world of children, youth and family

ministry and contemporary influences on, and ways to approach, ever-changing youth culture. F

2324 Strategic Issues of Youth and Family Ministry. Explores the pragmatic side of youth and family ministry by considering strategic issues like programming, event planning, youth culture, personal ministry, and other issues necessary for developing effective ministers to youth and their families. S

3303 Adolescent Spiritual Formation. Study and consideration of the spiritual formation of adolescents in light of theological, psychological, sociological, and cultural realities. Considers age appropriate spiritual disciplines and prepares to direct adolescents in their relationships with God. FE

4090 Practicum. Supervised internship in student area of ministry, culminating in a final, written report. Recommended for summer completion with fall enrollment. F

4311 Studies in Youth and Family Ministry. Essential classic and contemporary readings and activities in the field. D

4322 Advanced Youth and Family Ministry. Academic culmination of the YFM specialization. Students will develop an integrative and implementable model of youth ministry in the context of family programming. S