

AREAS OF INSTRUCTION

The numbers of the courses give information that may be useful in planning your schedule. The first digit indicates the rank of the course; “0” is considered non-degree credit; “1” or “2” are considered lower-level courses, while “3” or “4” indicates an upper-level or advanced course. At least junior-level standing is usually required for enrollment in advanced courses. Courses with a “5” or “6” as the first digit are graduate level courses. The second digit indicates the number of semester hours to be earned. Many science and art courses require both lecture hours and laboratory or studio. They are indicated as follows: (3-4). This means that the first number, “3” indicates the number of lecture hours, while the second number “4” shows the laboratory hours required. If two course numbers appear for a course, the one in parentheses is the number used by the Texas Common Course Numbering System. Certificate programs are designated in clock hours.

Schreiner University reserves the right to make changes in course offerings at any time. A course for which there is insufficient enrollment may not be offered.

ACCOUNTING (ACCT)

The Bachelor of Business Administration degree (B.B.A.) is awarded to students who complete the requirements for a major in Accounting and Information Systems. This major provides the necessary background for many employment opportunities. Accounting graduates work in public, private or governmental accounting or as financial managers or consultants where they audit businesses and other organizations, prepare tax returns, and assist in business and investment decisions.

Schreiner University requires only 123 hours for a B.B.A. degree with a major in Accounting and Information Systems, including 27 hours of advanced accounting courses and 6 hours in information systems. To sit for the CPA examination in Texas, 150 total baccalaureate hours including 30 in advanced accounting are required. However, students may complete the additional total baccalaureate hours needed to qualify for the CPA examination at Schreiner University. The following courses comprise the 27 hours of advanced Accounting: ACCT 3301, 3302, 3303, 3304, 3305, 3306, 4301, 4303, 4398, and 6 hours of Information Systems: IS 3330, 3331.

Generally, students who intend to major in Accounting should enroll in the following courses during the freshman and sophomore years: MATH 1311 and 2422, IS 2301, ACCT 2301, 2302, ECON 2301, 2302, and PHIL 2311.

2301. (2301) INTRODUCTION TO FINANCIAL ACCOUNTING

Introduction to financial accounting that focuses on the preparation and understanding of accounting reports prepared for investors, financial analysts, creditors and other external users. Generally accepted accounting principles and other basic accounting concepts are studied. Prerequisite: MATH 1310 or consent of instructor.

2302. (2302) INTRODUCTION TO MANAGERIAL ACCOUNTING

Introduction to managerial accounting that focuses on the preparation and understanding of accounting reports prepared for managers and other internal users. Concepts covered include cost accounting methodology, relevant cost analysis, cost behavior, cost-volume-profit analysis, activity-based costing, operational and capital budgeting. Prerequisite: ACCT 2301.

3301. INTERMEDIATE ACCOUNTING I

Intensive study of financial accounting and the preparation of financial accounting reports. Concepts covered include the accounting cycle, Conceptual Framework of Accounting Theory, income statement preparation, accounting for current and long-lived assets, present value computations and applications. Prerequisites: ACCT 2302 with at least a grade of "C" and MATH 1311 or 2422.

3302. INTERMEDIATE ACCOUNTING II

This course is a continuation of ACCT 3301 and covers such topics as valuation of liabilities and investments, financial reporting for stockholder's equity, and income recognition and measurement of net assets. Prerequisite: ACCT 3301 with at least a grade of "C".

3303. INTERMEDIATE ACCOUNTING III

This course is a continuation of ACCT 3302 and covers such topics as accounting for income taxes, post employment benefits, leases, the statement of cash flows, and accounting for changes and errors. Students must complete a project in this course, which involves setting up a complete accounting system for a business. Prerequisite: ACCT 3302 with at least a grade of "C".

3304. COST ACCOUNTING

A study of advanced cost-accounting systems, including cost behavior, cost allocation, unit cost determination, activity costing and cost-volume-profit analysis. Prerequisite: ACCT 2302 with at least a grade of "C".

3305. FUNDAMENTALS OF INDIVIDUAL INCOME TAX

Introduction to the basic principles and concepts of individual federal income taxation. Emphasis on tax planning and preparation for tax problems. Prerequisite: ACCT 2302

3306. CORPORATE AND PARTNERSHIP TAXATION

Fundamentals of corporate and partnership federal income taxation. Includes corporate reorganizations, liquidations, partnerships, and "S" corporations. Prerequisite: ACCT 3305 or consent of instructor.

4301. ADVANCED ACCOUNTING

This course covers business combinations, consolidated financial statements, and accounting for governmental and not-for-profit organizations. Prerequisite: 18 hours of accounting including ACCT 3302 with at least a grade of "C".

4303. AUDITING THEORY AND PRACTICE

An introduction to the concepts, standards, and techniques employed by independent public accountants in the examination of and reporting on financial statements. Prerequisites: 18 hours of accounting, including ACCT 3302 with at least a grade of "C".

4370. TOPICS IN ACCOUNTING

Selected topics in the field of accounting, auditing, or taxation. Topics will vary; course may be repeated when topics vary. Prerequisite: As required by instructor.

4395. READINGS IN ACCOUNTING

Students will research, read, analyze, and report on subjects not offered as regular courses. Prerequisites: Senior standing and consent of instructor.

4397. SENIOR SEMINAR IN ACCOUNTING

A review and study of concepts and applications in areas of accounting theory, auditing, taxation and business law using related problems, cases and pronouncements. Prerequisites: Senior standing with 24 hours of upper level hours in accounting or consent of instructor.

4398. PROFESSIONAL INTERNSHIP IN ACCOUNTING

Supervised field employment which provides the opportunity for the student to apply prior learning to practical job experiences. Prerequisite: Senior status or consent of instructor.

ART

The Visual Art program seeks to provide an environment allowing for the exploration of creativity in the areas of Ceramics, Graphic Design, Computer Graphics, Two- and Three-Dimensional Design, Drawing, Illustration, Photography, Electronic Imaging, Portfolio Design and Art History. Unique travel, cross-discipline and art history topics are also offered. Students are encouraged to develop an interdisciplinary approach to learning by recognizing the many relationships existing between the visual arts and other disciplines.

Emphasis is placed on developing student creativity through individual problem-solving. Foundation courses are designed to introduce formal elements and principles, materials and techniques, and the development of concepts. Lower division courses introduce students to various creative mediums. Upper division courses provide continued study of specific media, advanced compositional and conceptual problems, and the development of related and marketable skills. All students are required to develop and fabricate a professional portfolio in original and digital forms.

Graphic Design: ART 1301, ART 1302, ART 1320, ART 1340, ART 1350, ART 2310, ART 2340, ART 2341, ART 2350, BSAD 1301, ENGL 2310 are required. Advanced courses that comprise a major in GRAPHIC DESIGN, are: ART 3301, ART 3310, ART 3312, ART 3350, ART 4302, ART 4310, ART 4351, ART 4360, ART 4398, ART 4399, BSAD 3320, BSAD 3321.

All students in visual art courses must maintain a 2.5 GPA or better for advancement to the next course level.

NOTE: All courses except ART 2340 and ART 2341 require students to purchase materials and tools to be used for class assignments.

1301. PRINCIPLES OF TWO-DIMENSIONAL DESIGN

Studio course concentrating on elements and principles of visual organization applied to two-dimensional concepts. This includes a particular focus on color theory and application. This is an introduction for art and non-art majors. (3-3).

1302. PRINCIPLES OF DRAWING

Studio course concentrating on the development of basic drawing skills, use of materials and the organization of composition on the picture plane. This is an introduction for art and non-art majors. (3-3).

1320. PRINCIPLES OF THREE-DIMENSIONAL DESIGN

Studio course concentrating on elements and principles of visual organization applied to three-dimensional concepts and their exploration within spatial environments. Students solve problems by organizing and constructing three-dimensional forms. This is an introduction for art and non-art majors. (3-3).

1340. INTRODUCTION TO THE VISUAL ARTS

This course offers a diverse investigation of art and culture from the historical and contemporary perspectives. It is a discussion of the contributions of the arts to the understanding of aesthetics, observation of historic styles, traditional and contemporary techniques, and the influence of cultural media. More time is allotted for this course to allow for field trips and assignments in various media. This is an introduction for art and non-art majors. (3-3)

1350. COLOR THEORY

This course is a comprehensive foundation in color theory and practice as applied in art and industry.

2304. COMPUTER ILLUSTRATION

This course explores the methods and techniques of computer-generated and/or manipulated images as solutions to illustration projects. Vector graphics and object-oriented system programs are utilized with an emphasis on the development of illustration for print and multi-media using digital processes. Compositional development, visual problem-solving, verbal articulation and presentation of creative projects and will be accentuated. Prerequisite: ART 1302. (3-3).

2310. PHOTOGRAPHY I

Introduction to the principles of photography including the use of the camera, the aesthetics of photography, composition and basic techniques in black and white darkroom procedure. Assignments in film processing, printing an enlargement, and the use of video equipment. Prerequisite: Second semester freshman standing. (3-3).

2322. INTRODUCTION TO CLAY

Introduction to hand-building methods, use of the electric potter's wheel, glaze application, and surface finishing techniques in creating ceramic art forms. (3-3).

2340. ART HISTORY I

A cultural study of the visual arts from Prehistory through the Middle Ages.

2341. ART HISTORY II

Study of the visual arts from the Renaissance to the present.

2350. TYPOGRAPHY

This is an introductory course in the art of lettering and a comprehensive review of basic typographic design. Calligraphic techniques, the historical development of letter forms, as well as the impact of the computer will be explored. The theory and practice of type as a communication medium is examined with respect of contemporary usage in various fields. The importance of typography as an expressive and informational medium will be emphasized.

3301. COMPUTER GRAPHICS

In this introduction to electronic image editing, students become acquainted with the concepts, hardware, and software related to digital image acquisition, manipulation and output, including scanning, masking, layering, retouching, and printing. The course emphasizes the role of the digital image as a communication tool of the graphic designer. Prerequisites: ART 1301, IS 2301 and junior standing. (3-3). See BSAD 3301.

3310. DIGITAL PHOTOGRAPHY

This photography course is designed for the graphic design major and non-major to apply and assess

functions of the digital camera and software programs. The advantages of capturing digital images quickly for assessment and storage while projecting the requirements necessary to output this imagery; print, web, etc. are studied. Prerequisites: ART 2310 and IS 2301.

3311. PRINTMAKING

An introductory studio course in basic printmaking processes, history and aesthetics. Prerequisite: ART 1302. (3-3).

3312. MULTIMEDIA

This course is an introduction to the wide-ranging use of computers in the production of film and videotape and the implications for its future use. The histories of both media, as well as techniques for design implementation, are covered. Students generate scripts and storyboards and produce titling and optical effects in the lab, integrating image manipulation software and other image processing support. Projects focus on corporate identity and other business applications in the computer graphics industry. Prerequisites: ART 2310 and 3301. (3-3).

3324. INTERMEDIATE CERAMICS

This course is a continuation of ART 2322 with the continued use of the potter's wheel for production of creative ceramic art forms. It includes plaster mould work, glazing and slab construction. Prerequisite: ART 2322. (3-3).

3350. GRAPHIC DESIGN I

This course concentrates on applications of graphic design principles and theory. Through a study of the function of typography and page layout using Adobe InDesign, this course examines the organization of body text, headline display, and graphics. Creative interaction is developed as a resource in the conceptual process. Professionalism and attention to detail are emphasized as techniques in design critique and presentation refinement is explored. Students demonstrate and refine their skills by working with actual clients from the community who are seeking real-world solutions to their communication needs. Prerequisite: ART 3301, and junior standing. (3-3).

4302. COMPUTER GRAPHICS STUDIO

A course designed to explore corporate identity, advertising, and marketing strategies. Projects range from the development of a specific graphic design image as a communication device for a presentation to a complex business impression and marketing strategy. Students work with actual clients from the community who are seeking real-world solutions to their communication needs in each project. Prerequisite: ART 3301 with a "C" or above. (3-3).

4310. PRE-PRESS AND PRINT MANAGEMENT

The course includes the preparation and output of digital computer files on state-of-the-art digital printers using a variety of software. The course will stress the correct preparation of files for optimal output results. Emphasis will be on the proper calibration of printers and computer to optimize final output quality. Also stressed will be the understanding of paper, its characteristics, and how to choose the correct paper and ink within the budget constraints of a given job. Prerequisite: ART 3350.

4325. ADVANCED CERAMICS

Emphasis on wheel production, surface decoration, and kiln firing. Prerequisite: ART 3324. (3-3).

4351. GRAPHIC DESIGN II

This course explores advanced design problem solving through intense investigation involving student's personal graphic design creative skills. The course concentrates on the application of graphic

design principles and theory to real-world experience. Students work with actual clients from the community who are seeking creative solutions to their communication needs in each project. The class operates as a professional design business to refine individual and group skills. Students have the opportunity to be part of a design team while working with authentic clients from the business environment. Creative interaction is developed as a resource in the conceptual process. Professionalism, attention to detail, and verbal skills are emphasized through critique and presentation. Prerequisite: ART 3350 with a grade of "C" or above. (3-3).

4360. PROFESSIONAL PORTFOLIO DESIGN

In preparation for job interviews, a graphic design portfolio is assembled and refined. Working individually with an instructor, each student selects pieces showcasing work that represents a unique style and demonstrates overall conceptual abilities. This course should be taken in the last year of the degree program. Prerequisite: Senior status and approval of the faculty committee, which reviews portfolio proposals in the semester before the portfolio course is to be taken.

4370. TOPICS IN ART

In-depth study of particular topics in art. May be repeated when topics vary. Prerequisite: Consent of instructor.

4397. ARTS MANAGEMENT

This course offers a survey of public and private visual and performing arts organizations. Course content will include a study of the relationship between arts management and artistic production. This study will also include an overview of career management options in fields of creative endeavor. Prerequisites: BSAD 1301, junior standing and consent of instructor.

4380. DIRECTED STUDY IN ART

Subject areas in art not offered as regular courses may be investigated by the directed study to accomplish personal needs of the student. Approval before registration by the supervising instructor and the appropriate dean are required. Prerequisite: Upper-level status with the completed basic art courses. The course may be repeated once with a change in focus.

4398. PROFESSIONAL INTERNSHIP IN GRAPHIC DESIGN

Faculty members coordinate the program with upper-level students to work part-time with cooperating employers. This course provides the opportunity to apply prior learning to supervised practical field circumstances and gain employment experience. Students are required to keep a log, communicate weekly with the supervising instructor, and maintain attendance requirements. Prerequisite: ART 3350, senior status, and consent of instructor.

4399. SENIOR PROJECT IN COMMUNICATION DESIGN

This is the culmination of the degree program. Students make preparation for entering a career field or pursuing graduate studies. The student will learn web page development and create and publish a web page that will serve as an on-line representation of themselves as artists and graphic designer. Students must exhibit in the Synergy show, submit work for consideration in local, regional and national competitions, create and publish a web page, document undergraduate work and complete a professional portfolio. Prerequisites: **This course should be taken in the final semester of the degree program.**

BIOCHEMISTRY (BIOC)

Schreiner University offers courses leading to a Bachelor of Arts (B.A.) degree and a Bachelor of Science (B.S.) degree with a major in Biochemistry.

The biochemistry program is committed to the liberal arts tradition with emphasis upon biochemistry as an area of free inquiry. Students are not expected simply to master current biochemistry knowledge. Rather, they are encouraged to understand biochemistry as a dynamic body of knowledge. Methods of producing new knowledge and using concepts to further understanding are two major goals of the program.

Biochemistry is a multidisciplinary major. A student with B.A. degree in biochemistry will meet all the requirements for medical, dental, veterinary and pharmacy schools. A student with a B.S. degree in biochemistry will be highly employable with a bachelors degree. Those students wishing to pursue graduate studies in biochemistry are encouraged to follow the B.S. degree plan. The biochemistry program includes courses and experiences that will give the student a wide variety of laboratory techniques that are essential for further investigations either in education or industry.

For the (B.A. degree): CHEM 1401, 1402, 3401, 3403, 3411, 3412, BIOL 1401, 2404, 3350, 3430, 3450, MATH 2422, 2423, and BIOC 3405, 3406 and either 4398, or 4399. PHYS 1401 and 1402 are recommended electives.

For the (B.S. degree): CHEM 1401, 1402, 2302, 3401, 3403, 3411, 3412, BIOL 1401, 2404, 3350, 3430, 3450, MATH 2422, 2423, PHYS 1401, 1402, and BIOC 3405, 3406, and either 4398, or 4399.

3405. BIOCHEMISTRY I

Structure and function of biologically significant molecules; enzymology, metabolism, biosynthesis of macromolecules, bioenergetics, molecular biology. Prerequisite: CHEM 3412 with a grade of "C" or better. (3-3)

3406. BIOCHEMISTRY II

Continuation of BIOC 3405, the study of protein, carbohydrate, and fat metabolism and their inter-relationship. Prerequisite: BIOC 3405 with a grade of "C" or better. (3-3).

4195. READINGS IN POPULAR LITERATURE IN THE NATURAL SCIENCES

This is a study of a specific popular book about natural science. Author will be invited for a seminar. Offered as circumstances permit. May be repeated when topics vary. Prerequisite: 8 hours of a natural science. Graded "S/U".

4398. INTERNSHIP IN BIOCHEMISTRY

Supervised field study or employment which provides the opportunity for the student to apply prior learning to practical laboratory situations. Prerequisite: Senior standing. Graded S/U.

4399. SENIOR PROJECT IN BIOCHEMISTRY

Independent investigation culminating in a written paper. May involve laboratory and library research.

BIOLOGY (BIOL)

Schreiner University offers courses leading to a Bachelor of Arts degree and Bachelor of Science degree with a major in Biology. The biology program is committed to the liberal arts tradition with emphasis upon biology as an area of free inquiry. Students are not expected simply to master current biological knowledge. Rather, they are encouraged and expected to

understand biology as a dynamic body of knowledge. Methods of producing new knowledge and using concepts to further understanding are two major goals of the program.

In addition, there is an emphasis on the interdisciplinary context of biology as a science. Students majoring in Biology are expected to understand the philosophical foundations of science and the limitations inherent in all scientific knowledge.

The biology curriculum has been designed specifically to achieve these goals. Required courses include many of the subdivisions of the life sciences. Also included are a number of laboratory courses and some courses specifically designed to prepare students to carry out research in topics of special interest.

Students who major in biology may pursue a number of postgraduate directions including education, industry, and graduate study. Graduate study may require additional coursework in biology.

For the (B.A. degree): BIOL 1401, (1403, 1404, 2403, or 2404), 3350, 3430, 3440, 3450, (4398, or 4399), 6 hours of upper level biology courses, CHEM 1401, 1402, 3411, 3412, MATH 1310, and 1321. MATH 2422, 2423, PHYS 1401, 1402, and statistics are recommended electives.

For the (B.S. degree): BIOL 1401, 2302, 2403, 2404, 3350, 3430, 3440, 3450, 4398, 4399, 4 hours of upper level biology courses, CHEM 1401, 1402, 3411, 3412, MATH 2422, 2423, PHYS 1401, 1402.

Students may not earn credit for both BIOL 2411 and BIOL 3414, or both BIOL 1407 and BIOL 3407.

Students seeking teacher certification in biology (BIOL) should consult the Teacher Education section of this catalog for specific course selection.

1400. HUMAN BIOLOGY

A one semester study of biological principles particularly as they apply to humans. (3-2). Does not fulfill requirements for the biology major. Students who already have credit for BIOL 1401 or BIOL 1403 may not ordinarily receive credit for BIOL 1400.

1401. (1408) CONCEPTS OF BIOLOGICAL SCIENCE

A conceptual approach designed to provide students with an organizing framework for understanding and further learning of biology (3-3).

1403. (2401) HUMAN ANATOMY AND PHYSIOLOGY I

Systematic study of the human body; its structure and function (3-2).

1404. (2402) HUMAN ANATOMY AND PHYSIOLOGY II

A continuation of BIOL 1403. Prerequisite: BIOL 1403 or consent of instructor (3-2).

1405. ENVIRONMENTAL SCIENCE

Major issues arising from interface of society and environmental, natural sciences. Emphasis upon nature of scientific knowledge; its usefulness and limitations in decision-making and problem-solving. Intended for partial fulfillment of basic natural science distribution requirement. (3-2) (formerly ENV5 1401)

1407. BEHAVIORAL BIOLOGY

A one semester study of basic behavioral patterns in animals (3-2). Intended for partial fulfillment of

basic natural science distribution requirement. Students may not receive credit for both BIOL 1407 and BIOL 3407.

2302. SCIENTIFIC PROBLEM-SOLVING UTILIZING SPREADSHEETS

This course will use spreadsheets to solve problems in biology including data analysis and simulation of scientific processes. Prerequisite: Sophomore standing or consent of instructor.

2403. SURVEY OF THE ANIMAL KINGDOM

Survey of the animal kingdom from sponges through vertebrates. Prerequisite: BIOL 1401 or consent of instructor. (3-2).

2404. SURVEY OF THE PLANT KINGDOM

Survey of the plant kingdom from algae through angiosperms. Prerequisite: BIOL 1401 or consent of instructor. (3-2).

3270. TOPICS IN BIOLOGY

Intensive study of a specific biological topic. May be repeated when topics vary. Prerequisite: Consent of instructor.

3350. WRITING AND RESEARCH IN BIOLOGY

Standards and styles for various kinds of writing about biology. The basic elements of biological research, its planning and reporting. Prerequisite: 8 hours biology or consent of instructor. (3-0).

3360. SCIENTIFIC TERMINOLOGY

This is a course designed to build the science vocabulary; that is, to increase the number of words whose meaning can be recognized or derived and to learn to use scientific words correctly and effectively. This course concentrates on medical terms, but other science terms will be learned as well. The course focuses on the Latin and Greek elements in the English language in order to illustrate how words are built, how they are spelled, how they are used, and what they mean.

3370. TOPICS IN BIOLOGY

Intensive study of a specific biological topic. May be repeated when topics vary. Prerequisite: Consent of instructor.

3406. ADVANCED PHYSIOLOGY

This is an advanced study of the physiology of human systems, including weekly laboratory session. This course is intended for students preparing for graduate or professional school in the health sciences. Prerequisites: BIOL 1403, 1404 and junior standing, or consent of instructor. (3-3) See EXSI 3406.

3407. ANIMAL BEHAVIOR

Explores the evolutionary, morphological and motivational causes of behavior patterns in animals. Prerequisite: 8 hours Biology. (3-2). Students may not receive credit for both BIOL 1407 and BIOL 3407.

3414. GENERAL MICROBIOLOGY

A study of microorganisms as representative organisms. Application of basic biological concepts to the study of microorganisms, with emphasis on allied health topics. Prerequisite: 8 hours of biology or consent of instructor. (2-4).

3430. GENETICS

Discussion of the state of modern genetics from molecular genetics through transmission genetics to population genetics. Emphasis upon problem-solving. 3 hours lecture and a 2 hour laboratory. Prerequisite: 8 hours biology. (3-2).

3440. POPULATION BIOLOGY

Comprehensive study of the population level of organization including population genetics, ecological genetics, adaptation, populations, communities, and ecosystems. Prerequisite: 8 hours biology (3-3).

3450. CELL BIOLOGY

Study of structure and function of cells as units of living matter. Prerequisites: 8 hours biology and CHEM 1402. (3-3).

3470. TOPICS IN BIOLOGY

Intensive study of a specific biological topic. May be repeated when topics vary. Prerequisite: Consent of instructor.

4195. READINGS IN POPULAR LITERATURE IN THE NATURAL SCIENCES

This is a study of specific popular book about natural science. Author will be invited for a seminar. Offered as circumstances permit. May be repeated when topics vary. Prerequisite: 8 hours of a natural science. Graded "S/U".

4398. INTERNSHIP IN BIOLOGY

Learning biology in a work setting. Students are placed in a workplace (at least 60 hours of experience) and learn how biology is applied in that specific setting. Graded S/U.

4399. SENIOR PROJECT IN BIOLOGY

Independent investigation culminating in a written paper. May involve laboratory and library research.

BUSINESS ADMINISTRATION (BSAD)

Schreiner University offers both the Bachelor of Arts (B.A.) with a major in Business Administration and Bachelor of Business Administration (B.B.A.) degrees with majors in Finance, International Business, Management, and Marketing.

All degrees are structured to enable graduates to succeed in the competitive global business environment. The Bachelor of Arts (BA) degree focuses on cultural diversity and the interrelations of commerce, economics, social, historical, and political perspectives. The Bachelor of Business Administration (BBA) degree focuses on critical thinking and the interpersonal skills essential for careers in management, marketing, entrepreneurship, finance, and international business.

The B.A. Business Administration major consists of 30 upper-level BSAD courses: BSAD 3310, 3320, 3331, 3360, 4331, 4340, 4342, 4351, and one 3 hours upper-level course culminating with BSAD 4398 (Professional Internship in Business), or BSAD 4399 (Senior Project in Business). In addition to 54 hours of core curriculum and 30 hours in the major requirements, there are 18 hours of electives and 18 hours of collateral courses for a total 120 hours.

Also offered is a B.A. in Business Education (6-12). Students seeking teacher certification in Business Education should consult the Teacher Education section of this catalog for specific course selection.

The B.B.A. Finance major consists of 24 upper-level BSAD courses: BSAD 3360, 3362, 4321, 4342, 4351, 4361, 4362 culminating with BSAD 4398 (Professional Internship in Business), or BSAD 4399 (Senior Project in Business). In addition to 69 hours of core curriculum and the 24 hours in the major, the following collateral courses in Information Systems (2320, 2330, and 3310) and Business Administration (3310, 3331, 3320, and 6 hours upper level) are also required for a total 120 hours.

The B.B.A. International Business consists of 36 upper-level BSAD courses: BSAD 3310, 3320, 3331, 3360, 3381, 3383, 4331, 4340, 4351, 6 hours upper level International Business courses culminating with BSAD 4398 (Professional Internship in Business), or BSAD 4399 (Senior Project in Business). In addition to 69 hours of core curriculum and the 36 hours in the major, there are 15 hours of collateral courses for a total 120 hours. Included in the collateral courses are 6 hours of intermediate language resulting in two years of a foreign language.

The B.B.A. Management major consists of 24 upper-level BSAD courses: BSAD 3331, 4321, 4330, 4331, 4332, 4342, 4361 culminating with BSAD 4398 (Professional Internship in Business), or BSAD 4399 (Senior Project in Business). In addition to 69 hours of core curriculum and the 24 hours in the major, the following collateral courses in Information Systems (2320, 2330, and 3310) and Business Administration (3310, 3320, 3360, 4351, and 3 hours upper level) are also required for a total of 120 hours.

The B.B.A. Marketing major consists of 24 upper-level BSAD courses: BSAD 3301, 3320, 3321, 3322, 4321, 4332, 4342 culminating with BSAD 4398 (Professional Internship in Business), or BSAD 4399 (Senior Project in Business). In addition to 69 hours of core curriculum and the 24 hours in the major, the following collateral courses in Information Systems (2320, 2330, and 3310) and Business Administration (3310, 3331, 3360, 4351, and 3 hours upper level) are also required for a total 120 hours.

1301. (1301) INTRODUCTION TO BUSINESS

A study and survey of the functional area of business with particular emphasis on the role of business in American society, various dimensions of business, business careers, and techniques of analysis used in business.

2301. PERSONAL FINANCE

A non-technical course covering various aspects of personal finance. Topics covered include budgeting, financial planning, investments, taxes, insurance, retirement planning, estate planning. Prepares students to make educated decisions in managing their individual finances.

BSAD 1301 is a prerequisite for all advanced business administration courses.

3301. COMPUTER GRAPHICS

In this introduction to electronic image editing, students become acquainted with the concepts, hardware, and software related to digital image acquisition, manipulation and output, including scanning, masking, layering, retouching, and printing. The course emphasizes the role of the digital image as a communication tool of the graphic designer. Prerequisites: ART 1301, IS 2301 and junior standing. (3-3) See ART 3301.

3310. LEGAL ENVIRONMENT OF BUSINESS

This course studies business under the U.S. Constitution, federal legislation, legal precedents, and agency orders. Emphasis on court interpretations. Prerequisite: BSAD 1301.

3311. BUSINESS ORGANIZATIONS & LEGAL INSTRUMENTS

This course examines business forms, including agency, partnership, and corporations. Also covered are the law of sales, commercial paper, creditors' rights, and secured transactions. Prerequisites: BSAD 1301, 3310 or equivalent.

3320. PRINCIPLES OF MARKETING

A basic course using the managerial approach to the study of marketing. The course includes a study of consumer behavior, product strategy, the selection of distribution channels, pricing and promotion with emphasis upon the creation of effective marketing strategies. Prerequisite: BSAD 1301.

3321. ADVERTISING

A study viewed from both a marketing and communication perspective as any paid form of nonpersonal presentation and promotion of ideas, goods, and services by an identified sponsor. To understand how the advertiser performs his function of using the means available to inform prospective buyers of the product or service. Prerequisite: BSAD 1301, 3320 or consent of instructor.

3322. INTERNATIONAL MARKETING

This is a study of the growth in world markets, cultural differences, and political constraints applicable to international marketing. Students are introduced to activities involving the gathering and analyzing of information in the development and implementation of an international marketing plan. Prerequisite: BSAD 3320.

3331. PRINCIPLES OF MANAGEMENT

This course examines management as a process, profession and discipline. Emphasis will be placed on organizational design, management of innovation, strategic decision-making, control systems, group dynamics, motivation, leadership and a survey of normative managerial literature. The course will strive to strike a balance between quantitative and qualitative management tools. Prerequisite: BSAD 1301.

3350. ORGANIZATIONAL BEHAVIOR

This course focuses on providing an integrated social scientific approach to relationships between the individual and the organization, and on administrative problems. Topics include performance appraisal, leadership, motivation, interpersonal relationships, decision-making, job satisfaction, and change, among others. Prerequisites: BSAD 1301 or PSYC 1301 or consent of instructor. See PSYC 3350.

3360. PRINCIPLES OF FINANCE

An introduction to analytical financial management, including short-term credit policies, capital budgeting, risk, long-term funding, financial leverage, and the cost of capital. Special topics such as mergers, consolidations, bankruptcy, and reorganizations will also be considered. Prerequisites: ACCT 2302, with a "C" or better, MATH 1311, ECON 2301.

3362. FINANCIAL INSTITUTIONS AND MARKETS

In-depth study of the U.S. financial systems, the financial intermediation process and the role of money. Among the topics covered are interest rates, credit markets and investments, money and inflation, regulation of financial institutions. Prerequisites: ECON 2301, ACCT 2301, MATH 3330.

3381. GLOBALIZATION THEORIES, ISSUES, AND TRENDS

This is a survey of current historical, social, and cultural, economic and political issues and trends affecting the global community. Prerequisite: POLS 2303 or consent of instructor. See POLS 3381.

3383. INTERNATIONAL POLITICAL ECONOMY

This is a study of the interrelationship between political and economic factors in international relations with a focus on theoretical perspectives on the relationship between international economics and politics, trade policies, trends in integration of political and economic systems, the role of multinational corporations and economic organizations in the modern world. Prerequisite: POLS 2303 or consent of instructor. See POLS 3383.

3384. REGIONAL STUDY

This is an interdisciplinary survey of a world region focusing on the geographic, historical, cultural, economic, and political factors most affecting the role of this region within the international community today. Regions such as Latin America, Europe, The Middle East, and Asia will be offered on a rotating schedule. May be repeated when region changes. Prerequisite: POLS 2303 or consent of instructor. See POLS 33834.

3385. THE AMERICAN FOREIGN POLICY PROCESS

This is the study of the foreign policy making process and factors influencing U.S. international political and economic behavior since 1945. Special emphasis will include foreign policy issues affecting the United States political and economic interests in the coming decade. Prerequisite: POLS 2303 or consent of instructor. See POLS 3385.

4170. TOPICS IN BUSINESS

Selected topics in the field of business. Topics will vary; course may be repeated when topics vary. Prerequisites: As required by instructor: upper-division standing.

4270. TOPICS IN BUSINESS

Selected topics in the field of business. Topics will vary; courses may be repeated when topics vary. Prerequisites: As required by instructor: upper-division standing.

4321. BUSINESS RESEARCH

A study of research principles and tools that are typically used in business to efficiently and effectively plan, collect, organize, and assimilate information in order to make informed business decisions. Students are also exposed to qualitative research, and employ modern analytical tools, SPSS and Excel, in a field research project. Prerequisites: ACCT 2301, BSAD 3320, ECON 2301, and MATH 3330.

4330. HUMAN RESOURCE MANAGEMENT

This course focuses on human resource management with emphasis on its impact on the practice of management throughout the organization. Topics include equal employment opportunity and other legal issues, staffing, training and development, compensation, employee relations, and workplace related health and safety issues. Prerequisites: BSAD 1301, 3331.

4331. STRATEGIC MANAGEMENT

A capstone course in business. Integrates materials from various business functional areas. Using the case method, the course emphasizes the development of policymaking skills. Among the topics covered are strategy formulation and the strategic management process, internal and external analysis, corporate level strategy, business level strategy, planning for change. Prerequisite: Senior standing, 15 hours in upper-level business, ACCT 2301, ECON 2301, and MATH 3330.

4332. RETAIL MANAGEMENT

This is a study of the management practices typically employed in selling and retail enterprises. The basic functions of merchandising, promotion, supply-chain, control, and other activities involved in

the sale of services and goods to consumers are examined from an operational perspective. Prerequisites: BSAD 3320, 3331, ACCT 2301, and 2302.

4340. INTERNATIONAL BUSINESS

Study of international business with emphasis on the factors that drive globalization of business and its impact on domestic corporations. Topics include the theory and practice of international trade and investment, monetary transactions and international finance, practice of management in the international environment, ethical issues in international business. The role of political, economic and cultural differences will be stressed throughout. Prerequisites: ACCT 2301, BSAD 3331, and ECON 2301.

4342. ENTREPRENEURSHIP

This course addresses the identification and analysis of entrepreneurial opportunities, development of business plans, and issues unique to startups. The focus will be on managing small business with special emphasis on marketing and financial management. Prerequisites: ACCT 2301, BSAD 3320, 3331, and ECON 2301.

4351. QUANTITATIVE METHODS IN BUSINESS

This course is designed to provide students a foundation in the analytical decision making practices in business organizations. Students will learn to solve business problems through computer modeling techniques. Topics include: decision analysis, decision trees, linear programming, optimization, sensitivity analysis, estimation and forecasting, inventory control models, queuing models, PERT/CPM, transportation, transshipment and assignment. Extensive application of computer assisted analysis and modeling is included. Prerequisites: MATH 1311 with a "C" or better, MATH 3330, ACCT 2301, and ECON 2301.

4361. INVESTMENT MANAGEMENT

Focus of stocks, bonds and options. Basic mechanics and principles of investing and portfolio management. Pricing and analysis of securities and derivative instruments. Option strategies. Prerequisites: BSAD 3360, ACCT 2301, ECON 2301, and MATH 3330.

4362. INTERMEDIATE FINANCIAL MANAGEMENT

A study of corporate valuations, strategic investment decisions, working capital management, and tactical and strategic financing decisions. Special topics also include derivatives, risk management, mergers, and bankruptcy, reorganization, and liquidation. Prerequisites: BSAD 3360, and 3362.

4370. TOPICS IN BUSINESS

Selected topics in the field of business. Topics will vary; course may be repeated when topics vary. Prerequisites: As required by instructor: upper-division standing.

4380. DIRECTED STUDY IN BUSINESS

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the dean. Normally, students enrolling will have upper-division standing, a 2.0 GPA, and have completed basic discipline courses. May be repeated as topics change.

4398. PROFESSIONAL INTERNSHIP IN BUSINESS

Supervised field employment which provides the opportunity for the student to apply prior learning to practical job experiences. Prerequisite: Senior status or consent of instructor.

4399. SENIOR PROJECT IN BUSINESS

Independent capstone research investigation culminating in a senior thesis or comparable senior project.

CHEMISTRY (CHEM)

Schreiner University offers courses leading to a Bachelor of Arts (B.A.) degree and a Bachelor of Science (B.S.) degree with a major in Chemistry.

The chemistry program is committed to the liberal arts tradition with emphasis upon chemistry as an area of free inquiry. Students are not expected simply to master current chemistry knowledge. Rather, they are encouraged to understand chemistry as a dynamic body of knowledge. Methods of producing new knowledge and using concepts to further understanding are two major goals of the program.

A student with a B.A. degree in chemistry with additional work in biology will meet all the requirements for medical, dental, veterinary and pharmacy schools. A student with a B.S. degree in chemistry will be highly employable with a bachelors degree. Those students wishing to pursue graduate studies in chemistry are encouraged to follow the B.S. degree plan. The chemistry program includes courses and experiences that will give the student a wide variety of laboratory techniques that are essential for further investigations either in education or industry.

For the (B.A. degree): CHEM 1401, 1402, 3401, 3402, 3403, 3404, 3411, 3412, BIOL 3350, MATH 2422, 2423, PHYS 1401, 1402, and CHEM (4398 or 4399).

For the (B.S. degree): CHEM 1401, 1402, 2302, 3350, 3401, 3402, 3403, 3404, 3407, 3411, 3412, BIOL 1401, 3350, MATH 2422, 2423, 3425, PHYS 1401, 1402, and CHEM (4398 or 4399).

Students seeking teacher certification in Chemistry (CHEM) should consult the Teacher Education section of this catalog for specific course selection.

1401. (1411) GENERAL CHEMISTRY I

Designed for students preparing for careers in science, engineering, medicine, dentistry, and pharmacy. Prerequisite for higher courses in chemistry. Atomic theory, stoichiometry, bonding, periodic classification of the elements, and states of matter. Problem solving emphasized. Prerequisites: 2 years of high school algebra, MATH 1310 or concurrent enrollment in MATH 1310. (3-3).

1402. (1412) GENERAL CHEMISTRY II

A continuation of CHEM 1401. Solutions, colloids, thermodynamics, chemical kinetics, chemical equilibrium, electrochemistry, descriptive inorganic chemistry, organic chemistry, and nuclear chemistry. Prerequisite: Completion of CHEM 1401 or its equivalent with a grade of "C" or better. (3-3).

1403. (1405) INTRODUCTORY CHEMISTRY

Basic chemistry course for non-science majors. Emphasis on allied health topics. (3-2).

2302. SCIENTIFIC PROBLEM-SOLVING UTILIZING SPREADSHEETS

This course will use spreadsheets to solve problems in chemistry including data analysis and simulation of scientific processes. Prerequisite: Sophomore standing or consent of instructor.

3270. TOPICS IN CHEMISTRY

Intensive study of a specific topic in chemistry. May be repeated when topics vary. Prerequisite: Consent of instructor.

3350. INTRODUCTION TO CHEMICAL RESEARCH

Student research allied with the instructor's research. The student, in consultation with the instructor, will select a research problem, review the pertinent literature, collect and analyze data, and compose a paper. Prerequisite: Consent of instructor.

3370. TOPICS IN CHEMISTRY

Intensive study of a specific topic in chemistry. May be repeated when topics vary. Prerequisite: Consent of instructor.

3401. ANALYTICAL CHEMISTRY I

Classical chemical methods of analysis including gravimetric analysis, volumetric analysis, and statistical treatment of data. Prerequisite: CHEM 1402 with a grade of "C" or better, (3-4)

3402. ANALYTICAL CHEMISTRY II

Modern methods of chemical analysis including potentiometric titrations, polarographic, gas chromatographic, ultraviolet, visible, and infrared absorption, and atomic absorption techniques. Prerequisite: Completion of CHEM 1402 with a grade of "C" or better. (3-4).

3403. PHYSICAL CHEMISTRY I

Introduction to properties of gases, thermodynamics, equilibrium, electrochemistry, and chemical kinetics. Prerequisite: CHEM 1402 with a grade of "C" or better and MATH 2422. (3-3).

3404. PHYSICAL CHEMISTRY II

Introduction to quantum mechanics, spectroscopy, and the electronic structures of atoms and molecules. Prerequisite: Completion of CHEM 1402 with a grade of "C" or better. (3-3)

3407. INORGANIC CHEMISTRY

The basic concepts and theories of inorganic chemistry and how these are used to predict and understand the physical and chemical properties of compounds of the elements other than carbon. Inorganic compounds in the air, water, earth, and in the laboratory will be studied. Completion of CHEM 1402 with a grade of "C" or better. (3-3).

3411. ORGANIC CHEMISTRY I

Designed for students preparing for careers in chemistry, biology, chemical engineering, medicine, dentistry, and pharmacy. Bonding, classification, theory of mechanism, aliphatics, aromatics, and stereochemistry. Prerequisite: Completion of CHEM 1402 with a grade of "C" or better. (3-3).

3412. ORGANIC CHEMISTRY II

A continuation of CHEM 3411. Nuclear magnetic resonance, infrared spectroscopy, halides, organometallics, alcohols, phenols, ethers, aldehydes, ketones, carboxylic acids and derivatives, amines, carbohydrates, lipids, and proteins. Prerequisite: Completion of CHEM 3411 with a grade of "C" or better. (3-3).

4195. READINGS IN POPULAR LITERATURE IN THE NATURAL SCIENCES

This is a study of a specific popular book about natural science. Author will be invited for a seminar. Offered as circumstances permit. May be repeated when topics vary. Prerequisite: 8 hours of a natural science. Graded "S/U".

4398. INTERNSHIP IN CHEMISTRY

Supervised field study or employment which provides the opportunity for the student to apply prior learning to practical laboratory situations. Graded S or U. Prerequisite: Senior standing.

4399. SENIOR PROJECT IN CHEMISTRY

This course is designed to introduce the student to current literature, laboratory techniques, and writing skills in chemistry. Prerequisite: Senior standing.

COMMUNICATION (COMM)

Previously listed as Speech (SPCH)

2301. (1311) COMMUNICATION

Analysis of the basic skills of oral communication. Includes training in and exposure to interpersonal communication, basic public speaking, group discussion and problem solving, interviewing and parliamentary procedure. Prerequisite: ENGL 1301 or consent of instructor.

CREATIVE ARTS

The Creative Arts degree is a course of study designed with the practicing artist in mind. In addition to the usual core courses, the student will pursue a broad range of upper-level courses in art, English, music, and theater. Flexibility in the advanced-course requirements provides students with opportunities to target areas of special interest.

Required collateral courses; ART 1340, ART 2340, ART 2341, BSAD 1301, ENGL 2340, ENGL 3306, or THRE 4333, MUSC 1303, applied music, THRE 1101, THRE 1301, and 3 other hours from ART, ENGL, MUSC, THRE. The major consists of 30 advanced hours including ART 4397, and 24 additional hours from ART, ENGL, MUSC, THRE and either 4398 or 4399.

ECONOMICS (ECON)

2301. (2301) PRINCIPLES OF ECONOMICS I

An introduction to the study of macroeconomic problems of a capitalist economy. The theory and measurement of changes in the levels of prices, employment, national income and other aggregates. Topics include monetary and fiscal policy, stabilization policy, economic growth and international economics.

2302. (2302) PRINCIPLES OF ECONOMICS II

An introduction to the microeconomic theory of consumer behavior and of the firm and resource allocation in a private enterprise economy. Analysis of pricing of output, determination of wages, interest and profits under alternative market structures. Study of contemporary issues such as taxation, pollution, unions and government regulation. Prerequisite: ECON 2301 or consent of instructor.

EDUCATION (EDUC)

Students presently pursuing a Bachelor of Arts degree at Schreiner University may also pursue teacher certification. Preparation for certification to teach in the public schools of Texas is offered in Biology (life science), Chemistry, English (language arts), History and Mathematics

for grades 8-12; Business Education (6-12); in English, Language Arts and Reading, Mathematics, Mathematics/Science and Generalist for grades 4-8; Generalist in grades EC-4 and in Exercise Science and Music for all-level.

Students may pursue a Graduate Teacher Certification Program for one year. They may also pursue a graduate degree in education by enrolling in a three semester program to earn a Master of Education or a Master of Education in Teaching degree. The Principal Certification option requires an additional semester.

In accordance with SB994 and Subchapter M of the 1987 Standards for the Teaching Profession, and beginning with the 1989-90 school year, students will register for the following 18 semester hours of professional development:

EC-4: EDUC 3304, 3306, 4302, 4310, 4602

4-8: EDUC 3308, 3309, 4304, 4310, 4606

8-12: EDUC 3305, 3307, 4303, 4310, 4601

All-Level: May elect to follow the sequence for either the 4-8 or 8-12 list, but should remain consistent. EDUC 4603.

IMPORTANT: For the upper level education courses listed, none can be taken prior to documentation of passing THEA scores and admission to teacher education. Questions may be addressed to the Director of Teacher Education.

All undergraduate teacher education students are required to satisfactorily complete no more than 60 hours of observation prior to student teaching. The hours are in addition to the EDUC class hours. This involves observing in the classroom, assisting in service areas of the cooperating school, and working with groups of students. The times for the observation hours will be flexible, based on the class schedule of each individual student.

2333. NUTRITION, HEALTH, AND SAFETY FOR YOUNG CHILDREN (EC-4)

This course is designed to provide information related to nutrition, health, and safety in an educational setting for young children. Intended for partial fulfillment for those seeking certification in early childhood/elementary programs.

2334. LEARNING ENVIRONMENT FOR YOUNG CHILDREN (EC-4)

This course is designed to provide an overview of the developmental stages and needs of the young child. Theories and principles related to early childhood development and education are included. Students will learn to design the learning environment which is appropriate for children in grades EC-4. Information including families and communities in the total education process for young children will be addressed. An outdoor learning component is included to maximize effective and appropriate developmental opportunities during play. This course also has a theatre arts and visual arts component.

3304. CURRICULUM AND ASSESSMENT (EC-4)

This course will help students understand curriculum design and assessment of student learning. A major focus is to ensure student proficiency in planning lessons and appropriate assessment techniques. Content is closely tied to state public school laws, codes, organization, and curriculum requirements grades EC-4 (TEKS). The course also addresses instructional materials, and resources, and evaluation of student performance. This course requires ten (10) hours observation at a local elementary campus, grades early childhood to 4. Prerequisites: Senior standing and admission to the Teacher Education Program.

3305. CURRICULUM AND ASSESSMENT (8-12)

This course will help students understand curriculum design and assessment of student learning. A

major focus is to ensure student proficiency in planning lessons and appropriate assessment techniques. Content is closely tied to state public school laws, codes, organization, and curriculum requirements grades 8-12 (TEKS). The course also addresses instructional materials, and resources, and evaluation of student performance. This course requires ten (10) hours observation at a local middle school, grade 8, or high school campus (9-12). Prerequisites: Senior standing and admission to the Teacher Education Program.

3306. THE LEARNER (EC-4)

This course helps students develop an understanding and appreciation of and an ability to work with diverse student populations in the classroom (grades EC-4). Students learn how to modify and deliver instruction for such special student populations as at-risk, multicultural, gifted, learning and physically disabled, and other special needs learners. The course also addresses diverse interests and intelligences, as well as diversity and social implications. Prerequisites: Senior standing and admission to the Student Teacher Program.

3307. THE LEARNER (8-12)

This course helps students develop an understanding and appreciation of and an ability to work with diverse student populations in the classroom (grades 8-12). Students learn how to modify and deliver instruction for such special student populations as at-risk, multicultural, gifted, learning and physically disabled, and other special needs learners. The course also addresses diverse interests and intelligences, as well as diversity and social implications. Prerequisites: Senior standing and admission to the Student Teacher Program.

3308. CURRICULUM AND ASSESSMENT (4-8)

This course will help students understand curriculum design and assessment of student learning. A major focus is to ensure student proficiency in planning lessons and appropriate assessment techniques. Content is closely tied to state public school laws, codes, organization, and curriculum requirements grades 4-8 (TEKS). The course also addresses instructional materials, and resources, and evaluation of student performance. This course requires ten (10) hours observation at a local middle school campus, grades 4-8. Prerequisites: Senior standing and admission to the Teacher Education Program.

3309. THE LEARNER (4-8)

This course helps students develop an understanding and appreciation of and an ability to work with diverse student populations in the classroom (grades 4-8). Students learn how to modify and deliver instruction for such special student populations as at-risk, multicultural, gifted, learning and physically disabled, and other special needs learners. The course also addresses diverse interests and intelligences, as well as diversity and social implications. Prerequisites: Senior standing and admission to the Student Teacher Program.

3401. SCIENCE FOR TEACHERS (EC-8)

This course is designed to provide science strategies and learning opportunities in science that are appropriate for children. Science concepts related to Texas public school curriculum (TEKS) are explored. This course does not satisfy science requirements for a major in science. Intended for partial fulfillment for those seeking certification in early childhood/elementary/middle school generalist programs. Prerequisites: BIOL 1401, junior standing, and admission to the Teacher Education Program or consent of instructor.

4302. METHODS AND MANAGEMENT (EC-4)

This course addresses teaching methods, learning styles, classroom management, discipline management, instructional strategies, and the learning environment in grades EC-4. Students also learn how to deal with school/home and school/community communication. This course serves to confirm the student has adequate knowledge and skills to enter student teaching. Ten (10) hours observation in

the elementary school are required. Prerequisite: Senior standing and admission to the Teacher Education Program.

4303. METHODS AND MANAGEMENT (8-12)

This course addresses teaching methods, learning styles, classroom management, discipline management, instructional strategies, and the learning environment in grades 8-12. Students also learn how to deal with school/home and school/community communication. This course serves to confirm the student has adequate knowledge and skills to enter student teaching. Ten (10) hours observation in the secondary school are required. Prerequisite: Senior standing and admission to the Teacher Education Program.

4304. METHODS AND MANAGEMENT (4-8)

This course addresses teaching methods, learning styles, classroom management, discipline management, instructional strategies, and the learning environment in grades 4-8. Students also learn to deal with school/home and school/community communication. This course serves to confirm the student has adequate knowledge and skills to enter student teaching. Ten (10) hours observation in the elementary/middle school are required. Prerequisite: Senior standing and admission to the Teacher Education Program.

4310. PROFESSIONAL ROLES AND RESPONSIBILITIES

This capstone course discusses the professional roles and responsibilities of the teacher and examines the legal and ethical requirements of the profession. It includes information on interacting and communicating with parents, other educators, collaborating with colleagues, working with mentors, participating in professional development activities, and use of appropriate resources and technologies. It is also part of the preparation courses for the state of Texas Professional Development exam. Passing the practice Professional Development exam is required. Prerequisites: Senior standing and admission to Student Teacher Program.

4380. DIRECTED STUDY IN EDUCATION

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate dean. Students must have upper-level status, a 2.75 GPA, and completed basic discipline courses. May be repeated with a change of topic. Prerequisites: Admitted to the Teacher Education Program.

All assignments for student teaching or internships are made through the teacher education office. Under no circumstances is the student to arrange his or her own assignment with a particular teacher or school. Student teachers will be assigned to school districts in the Hill Country Center for Professional Development of Teachers Collaborative. It is the policy of the Schreiner University Teacher Education Program not to supervise student teachers or interns at locations more than 35 miles from Kerrville.

4601. STUDENT TEACHING (8-12)

The student teacher assumes a major responsibility for teaching and learning in the classroom(s) to which assigned. A minimum of 12 weeks in a public school setting is required. Prerequisites: Admission to student teaching, senior standing, and a minimum of 50 clock hours of observation must have been completed and documented in the office of Teacher Education prior to student teaching. Application for admission must be made no later than mid-term of the term prior to enrollment.

4602. STUDENT TEACHING (EC-4)

The student teacher assumes a major responsibility for teaching and learning in the classroom(s) to

which assigned. A minimum of 12 weeks in a public school setting is required. Prerequisites: Admission to student teaching, senior standing, and a minimum of 50 clock hours of observation must have been completed and documented in the office of Teacher Education prior to student teaching. Application for admission must be made no later than mid-term of the term prior to enrollment.

4603. STUDENT TEACHING, ALL-LEVEL

The student teacher assumes a major responsibility for teaching and learning in the classroom(s) to which assigned. A minimum of 12 weeks in a public school setting is required. Prerequisites: Admission to student teaching, senior standing, and a minimum of 50 clock hours of observation must have been completed and documented in the office of Teacher Education prior to student teaching. Application for admission must be made no later than mid-term of the term prior to enrollment.

4604. INTERNSHIP I: TEACHER CERTIFICATION

Designed for a student admitted to a teacher certification program under a post-baccalaureate plan and approved for an internship will focus on specified educational topic. Must register for EDUC 4604 during Fall term of the school year in which the internship is to be completed.

4605. INTERNSHIP II: TEACHER CERTIFICATION

Designed for a student admitted to a teacher certification program under a post-baccalaureate plan and approved for an internship will focus on specified educational topic. Must register for EDUC 4605 during Spring term of the school year in which the internship is to be completed.

4606. STUDENT TEACHING (4-8)

The student teacher assumes a major responsibility for teaching and learning in the classroom(s) to which assigned. A minimum of 12 weeks in a public school setting is required. Prerequisites: Admission to student teaching, senior standing, and a minimum of 50 clock hours of observation must have been completed and documented in the office of Teacher Education prior to student teaching. Application for admission must be made no later than mid-term of the term prior to enrollment.

5301. DIVERSE LEARNERS IN THE GENERAL EDUCATION CLASSROOM

This course explores educational changes and adjustments resulting from the interaction of a variety of different cultural backgrounds and exceptional learners in the modern school. Specialized techniques, processes, and programs designed to meet unique learning needs of diverse learners in the general education classroom are studied.

5302. EVOLUTION OF EDUCATIONAL CHANGE

Philosophical analysis of issues in American education. Consideration is given to ethical and epistemological implications of issues with an emphasis on the evaluation of arguments for the adoption of educational policy.

5303. CURRICULUM AND INSTRUCTION

A systematic analysis of public school curricula. A critical study of the objectives, methods of curricular organization, and content used with school children grades EC-12.

5304. EDUCATIONAL RESEARCH

Basic concepts of research design, strategies of experimental, historical, and descriptive research, and basic statistical procedures are introduced. Participants use these concepts to read, interpret, and evaluate educational research and to plan and conduct such research.

5305. PEDAGOGY AND PROFESSIONAL RESPONSIBILITIES

This course discusses the professional roles and responsibilities of the teacher and examines the legal and ethical requirements of the profession. This course is the capstone of the Graduate Teacher Certification Program.

5306. CHILD AND YOUTH DEVELOPMENT (EC-12)

This course is designed for the graduate student to learn about physical, cognitive, and affective development in Early Childhood through the 12th grade.

5307. INTERNSHIP I: GRADUATE TEACHER CERTIFICATION

This is the first semester of a two semester required classroom field experience designed for students admitted to the Graduate Teacher Certification Program under a post-baccalaureate plan. Students must register for and complete Internship I before enrolling in Internship II.

5308. INTERNSHIP II: GRADUATE TEACHER CERTIFICATION

This is the second semester of a two semester required classroom field experience designed for students admitted to the Graduate Teacher Certification Program under a post-baccalaureate plan. Prerequisite: EDUC 5307.

5311. EDUCATIONAL RESOURCES AND FINANCE

Survey of current designs in educational finance of public school districts; review of general concerns, and practices of the appropriate local, state, and federal government agencies.

5312. SCHOOL AND COMMUNITY RELATIONS

Introduction to the strategies and design models for informing local business community taxpayers and clientele about educational activities; study of models for participation and analysis of interaction models.

5313. EFFECTIVE TEACHING STRATEGIES

An in-depth study of effective teaching and management strategies. Students will be offered the opportunity to examine the means available for measuring and diagnosing individual learning needs and styles and for selecting from alternative learning materials and environments those most appropriate to individual needs.

5314. EDUCATIONAL COLLABORATION

Introduction to the strategies used to develop a collaborative network with local communities and agencies.

5321. SCHOOL BASED OPERATIONAL STRATEGIES

General studies in current theories applicable to school operations; emphasis includes understanding theory and research from related academic fields; requirements include reviews of related research.

5322. ISSUES IN EDUCATION

Studies of current issues and problems in public schools. Investigation of research, practices, and positions related to the issues studied. Exploration of available models for possible solutions or resolution of issues, as well as factors that may have an impact upon desired outcome.

5323. LEARNING THEORY AND MULTIPLE INTELLIGENCES

A study of the incidence, prevalence, etiology, and characteristics of the student's different learning styles. The relationship between learning styles, child development, school environment, and academic performance will be studied.

5324. ASSESSMENT AND MEASUREMENT OF THE LEARNER

This course is designed to offer students the opportunity to develop knowledge and skills in selection, administration, and interpretation of instruments and procedures to evaluate individuals. Emphasis will be on assessment techniques, instruments, and procedures relevant to the education of children and youth.

5325. DIRECTED FIELD PROJECT

An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Directed Field Project courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to the master's degree.

5340. ADVANCED DIAGNOSTIC AND CORRECTIVE READING

The focus of this course is on the diagnosis and remediation of reading problems in ages preschool through adult. Students will learn to diagnose reading problems and provide appropriate strategies for remediation. Student will analyze reading skills, explore causes of problems, and plan appropriate interventions.

5341. ADVANCED CONTENT READING STRATEGIES

The focus of this course is on the study of reading skills needed in various content areas. Emphasis is given to reading skills used in grades EC-12, such as study skills, readability of textual material in content fields, teaching of vocabulary and comprehension, and the interpretation of a variety of print media. Students will review current research on reading, examine materials and methods, and develop reading strategies for assisting learners with reading problems.

5642. THESIS

This course is the capstone of the Master of Education degree. Students will develop a topic of educational significance and write an acceptable thesis which will be presented to an education committee. This is an independent course that must be completed within five (5) years from the date of beginning the Master of Education program. Student must register every semester for this course until approval of the thesis.

6301. SCHOOL LAW

Survey of current legal basis and practices in the policy administration of education and review of significant court decisions pertaining to educational operations. Emphasis on rights and responsibilities of teachers and students and legislation related to multicultural institutional operations.

6302. EDUCATIONAL THEORY & LEADERSHIP

Introduction to the roles, tasks, and problems of positions in educational administration and their relationship to local, state, and federal government agencies.

6303. HUMAN RELATIONS IN EDUCATION

Analysis and identification of group processes and individual behavior which tend to enhance democratic interaction in the achievement of educational goals. Consideration of supportive roles requisite to the supervision of professionals in the educative process.

6304. ADMINISTRATOR INTERNSHIP

The Administrator Internship is an individually supervised field experience with educational administrators utilizing a related applied research activity.

6312. SCHOOL BUSINESS ADMINISTRATION

An examination of curriculum planning and development, organizational leadership and the effects of demographic shifts on the school district as these changes affect education.

6321. PUBLIC SCHOOL PROGRAMS

This course is designed to provide the student with the skills to select, monitor, and evaluate educational programs. The course will also provide a study of organization direction, management, and leadership for the programs of a single school.

EDUCATIONAL PSYCHOLOGY (EPSY)

2302. FOUNDATIONS OF EDUCATION IN THE CLASSROOM

This course provides an opportunity to explore a career in education and the various aspects of the teaching professional. Students will examine their commitment to teaching, the purpose of education, the public school classroom, and the relationship of various curriculum areas. Students will become familiar with the state competencies for Texas teacher certification and the Texas Essential Knowledge and Skills. Formal application process into the Teacher Education Program will be conducted. The course includes 10 hours observation in actual classroom settings. Prerequisite: Sophomore standing.

3303. EDUCATIONAL PSYCHOLOGY

This course focuses on the theories and principles of teaching and learning. Topics to be covered include motivation, educational research, current teaching and current learning theories, group dynamics, human development as it impacts learning, standardized testing, and views of learning. Prerequisite: Junior standing, admission to Teacher Education Program or consent of instructor.

3330. CHILD GROWTH AND DEVELOPMENT (EC-12)

This course is designed to provide information related to physical, cognitive, and affective development of young children and adolescents. This course is intended for partial fulfillment for those seeking certification in early childhood, elementary, and secondary programs. This course requires 10 hours of classroom observation.

ENGINEERING (ENGR)

Schreiner University offers a three-year program which exceeds the core curriculum of the Texas State Coordinating Board. Any branch of engineering or engineering technology may be pursued through either the standard two-two plan (two years associate degree at Schreiner/ two years at a senior engineering institution) or the three-two dual degree program (two bachelors degrees in five years). See description of the 3-2 plan under "Special Programs."

1310. TECHNICAL GRAPHICS

Beginning course in technical graphics: sketching, three-dimensional visualization, orthographic views, isometric drawing, and auxiliary views, with emphasis on computer-aided drawing (AutoCAD).

ENGLISH (ENGL)

Schreiner University offers courses leading to the Bachelor of Arts degree with a major in English. The English program supports the tenets of liberal arts education expressed in the

philosophy of the University. English courses prepare students for careers in foreign and public service, law, the ministry, communications, teaching, and research. Both the major and minor prepare students for related graduate studies.

In lower division courses, students focus on reading, writing, research, and other language competencies. Sophomore level literature courses introduce students to a wide range of literature from ancient to modern periods.

In upper division surveys and seminars, students examine national literatures, periods, and genres in depth. Students refine their research and writing skills as they prepare to construct and present a senior project.

Professors encourage English majors and minors to attend plays, readings, and conferences; to publish both scholarly and creative writing; and to participate in university publications such as *The Muse*, the Schreiner University Yearbook, and *The Mountaineer*. Because English majors and minors should understand both cultural and historical contexts of language and literature, they should enroll in both HIST 1350 and HIST 1351.

The major in English consists of ENGL 2340 and 2341 plus 36 advanced English hours, excluding ENGL 3301, 3303, 3306, 3307, and 3308 but including ENGL 3320, 3321, 3322, 3330, 3331, 4332, 4351 and 4399.

Students seeking teacher certification in English should consult the Teacher Education section of this catalog for specific course selection.

Placement in English courses is based on English placement assessment.

0302. DEVELOPMENTAL COMPOSITION I

A developmental course in which students review grammar, usage, and sentence structure, this course emphasizes the development of analytical reading skills. The course does not satisfy degree requirements.

0303. DEVELOPMENTAL COMPOSITION II

A developmental course designed to improve students' expository writing and analytical reading, this course requires students to read short texts and to construct a writing portfolio. The course does not satisfy degree requirements.

1301. (1301) RHETORIC AND COMPOSITION

A course designed to prepare students for academic writing, this course focuses on mechanics of expression and principles of English usage, refinement of writing techniques, critical writing skills, responses to written materials, and development of a clear, forceful prose style. Students completing this course should be able to present writing in response to a specific reading and demonstrate proficiency in reading and thinking critically.

1302. (1302) LITERATURE AND COMPOSITION

Providing an introduction to literature with units on the short story, drama, and poetry, this course emphasizes discussion and writing about great works of literature. Students will learn both to recognize and to apply literary techniques to thematic concerns, explicating short works as they organize and develop essays in MLA format. Prerequisite: ENGL 1301.

2310. INTRODUCTION TO JOURNALISM

An introduction to journalistic writing, this course addresses differences between journalism and composition, with particular emphasis on journalistic tasks: writing the lead and a balanced news story; conducting an interview; testing for libel; and preparing layout and design of broadsheet and

tabloid pages. Students construct a writing portfolio and publish in the student newspaper. Prerequisites: ENGL 1301 and 1302.

2320. (2326) STUDIES IN AMERICAN LITERATURE

General treatment of the seminal themes, theories, and ideas found in the literature of the United States from colonial times to the present. Prerequisite: ENGL 1302.

2340. (2332) WORLD LITERATURE THROUGH THE RENAISSANCE

A survey of the masterpieces of world literature from the ancient world through the Renaissance, this course emphasizes historical, generic, and thematic connections. Prerequisite: ENGL 1302.

2341. (2333) WORLD LITERATURE FROM THE RENAISSANCE

A survey of the masterpieces of world literature from the Age of Reason to the present, this course emphasizes historical, generic, and thematic connections. Prerequisite: ENGL 1302.

3301. ENGLISH STUDIES FOR TEACHERS

Designed for students preparing for careers in education, this course emphasizes approaches to analyzing texts, strategies for motivating students to read literature, promotion of student appreciation of literature, the teaching of traditional literary devices (imagery, tone, dialogue, characterization, irony, figurative language), strategies for designing effective assessment tools, evaluation of student compositions, and the increase of student proficiency in comprehending literary texts. Does not fulfill advanced English requirements. Prerequisites: ENGL 1301, 1302, junior standing and admission to the Teacher Education Program.

3303. TECHNICAL COMMUNICATION

This course provides instruction about preparing the kinds of writing expected in professional occupations. Students will prepare documents about issues related to their major areas of study—usually in the fields of business, engineering, science, and education. Writing assignments include presentations, memos, reports, and letters about cultural awareness, gender diversity, oral presentation evaluation, interviewing skills, use of PowerPoint, page and website design, and ethics cases. This course fulfills the advanced English composition requirement for students who may take a course in technical writing, but does not fulfill advanced requirement for English. Prerequisites: ENGL 1302 and junior standing.

3306. CREATIVE WRITING

This course provides students with skills inherent in the writing process—observation, assimilation, and evaluation—focusing on journal writing, poetry, fiction, travel writing, and publication. This course does not fulfill an advanced English requirement. Prerequisites: ENGL 1302 and junior standing.

3307. ADVANCED COMPOSITION

A capstone composition course emphasizing exposition and argument, this course emphasizes personal and analytical essays, with specific address to audience, purpose, and prose style. Encouraged to practice writing strategies appropriate to their chosen disciplines, students explore contemporary essays and discussions of composition and revision. This course fulfills the advanced English composition distribution requirement, but does not fulfill an advanced English requirement. Prerequisites: ENGL 1302 and Junior standing.

3308. GRAMMAR AND SYNTAX

This is a study of standard written English, emphasizing sentence, paragraph, and essay construction, usage, grammatical expression, revision, and style. The course includes a thorough review of the parts of speech, the traditional rhetorical modes, and literary and rhetorical terminology. Does not fulfill advanced English requirements. Prerequisites: ENGL 1301, 1302 and junior standing.

3320. LITERARY CRITICISM

This course addresses theories of literary critique, with emphasis placed upon the student's development of scholarly research—including location of secondary sources—and scholarly writing, including analysis and application of secondary criticism. During the semester, the student will construct a major paper, applying a particular critical theory to a primary literary text. This course provides a cornerstone for advanced literary analysis and thus should be taken prior to ENGL survey courses (3321, 3322, 3330, 3331). Prerequisite: ENGL 3307 or concurrent enrollment.

3321. AMERICAN LITERATURE FROM THE COLONIAL PERIOD THROUGH THE CIVIL WAR

A survey of American literature from 1620 to 1865, this course addresses representative authors whose works are connected to historical events, emphasizing social, intellectual, and aesthetic movements. Prerequisites: ENGL 3307 and 3320, or concurrent enrollment.

3322. AMERICAN LITERATURE FROM THE POST-CIVIL WAR PERIOD TO THE PRESENT

A survey of American literature from 1865 to the present, this course addresses representative authors whose works are connected to historical events, emphasizing social, intellectual, and aesthetic movements. Prerequisites: ENGL 3307 and 3320, or concurrent enrollment.

3330. BRITISH LITERATURE FROM THE MIDDLE AGES THROUGH THE AGE OF REASON

A survey of British literature from Beowulf to 1800, this course addresses representative authors whose works are connected to historical events, emphasizing social, intellectual, and aesthetic movements. Prerequisites: ENGL 3307 and 3320, or concurrent enrollment.

3331. BRITISH LITERATURE FROM THE ROMANTIC PERIOD TO THE PRESENT

A survey of British literature from 1800 to the present, this course addresses representative authors whose works are connected to historical events, emphasizing social, intellectual, and aesthetic movement. Prerequisites: ENGL 3307 and 3320, or concurrent enrollment.

3340. CHILDREN'S AND YOUNG ADULT LITERATURE

This course is designed to acquaint participants with the nature, scope, and uses of children's and young adult literature for instructional, informational, and recreational purposes. The implications of current theory, significant research, and issues in literature study will be investigated and examined as they relate to the PreK-12 learner. It examines the range of literature written for children and young adults from picture books to novels, including fiction, poetry, and informational books. Emphasis will be given to selecting appropriate literature, developing literature-based instruction, and understanding the multicultural contexts of literature. Prerequisites: ENGL 1301, 1302.

3350. SEMANTICS

This course emphasizes the impact of language on perceptions and behavior; ethical and unethical language manipulation; the implications of language; and effects of language manipulation in speech and writing. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing.

3371. MYTHOLOGY

This course examines world mythology, with an emphasis on Greek, Roman, Scandinavian, Hebrew, and Native American stories. Since myths symbolize human experience and embody the spiritual values of a culture, they are studied using various interpretations, including historical, sociological, and psychological perspectives. Prerequisite: ENGL 1302 and junior standing.

4330. AMERICAN ETHNIC LITERATURE

A study of major ethnic writers from selected periods in American history, this course emphasizes cultural, social, and political themes as reflected in representative works. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing.

4332. STUDIES IN SHAKESPEARE

This course emphasizes reading and in-depth analysis of six major plays, examining the rich critical background of Shakespearean studies. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing. See THRE 4332.

4340. DRAMATIC LITERATURE

This course includes readings in American, British, and Continental literature, with emphasis on the development of ideas, themes, and motifs. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing. See THRE 4340.

4351. HISTORY OF THE ENGLISH LANGUAGE

This course includes study of the origin and development of the English language, with emphasis on phonology, morphology, and transitional grammar. In addition, students examine dialects, spelling, dictionaries, and vocabulary sources. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing.

4363. RELIGIOUS MOTIFS IN LITERATURE

This course includes readings of selected contemporary novels that exhibit traditionally religious themes in the context of modern secularism. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing. See RELI 4363.

4365. LITERARY PERIODS AND GENRES

This course includes readings and critical approaches to American, British, and Continental literature, with emphasis on international crosscurrents, literary techniques, and thematic concerns. Course topics may be broadly periodical in nature—the Renaissance, the Age of Reason, Romanticism, the Victorian Age, Realism, Naturalism, Modernism, Postmodernism—or more genre oriented, as in a recent course which addressed the Vietnam Conflict, examining both American military/civilian perspectives, and the situation/mindset of the Vietnamese civilian. This course may be repeated when topics vary. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing.

4370. TOPICS IN ENGLISH

This course emphasizes regional literature and folklore; literatures including comparative, women's, and post-colonial; and advanced grammar, usage, and style. Topics for study include Advanced Grammar, Dadaism and Performance Art, Southern Writers, and Selected Areas of Women's Writing. This course may be repeated when topics vary. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing.

4380. DIRECTED STUDY IN ENGLISH

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and appropriate dean. Enrolling students must have upper-level status and at least a 2.0 GPA. This course may be repeated when topics vary. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing.

4399. SENIOR PROJECT IN ENGLISH

Independent capstone research investigation culminating in a senior thesis or comparable senior project.

EXERCISE SCIENCE (EXSI)

Schreiner University offers courses leading to a Bachelor of Arts and a Bachelor of Science degree with a major in Exercise Science. Exercise Science is the study of scientific applications to human movements and performance. Since it is the means to all accomplishments, movement is one of the most important things that man does. The study of Exercise Science seeks to determine the physiological, psychological, and sociological factors influencing simple movement and/or exercise. The program emphasizes the scientific application of these factors to human performance. The ability to logically and scientifically analyze and evaluate human performance is useful in many areas.

Many professional possibilities exist in the area of Exercise Science, and more are becoming available each year. Some students elect to pursue a teaching certificate in order to teach Physical Education in public or private schools. Other students may choose to work as exercise leaders or fitness directors in private athletic facilities or corporate fitness programs.

For the (B.A. degree): Either BIOL 1401 and 2403 or BIOL 1403, and 1404, CHEM 1403, EXSI 1301, 2305, 3307, 3320, 3321, 4323, 4325, 4395, 4422, and additional six-hours advanced EXSI.

For the (B.S. degree): BIOL 1403, 1404, 2302, CHEM 1401, 1402, PHYS 1401 and 1402 or CHEM 3412, MATH 2422 and 2423 or CHEM 3411, EXSI 2305, 3307, 3320, 3321, 3398, 4323, 4325, 4395, 4396, and 4422.

In addition, EXSI 2302 is recommended.

Students seeking teacher certification in physical education (EXSI) should consult the Teacher Education section of this catalog for specific course selection.

1201. (1238) INDIVIDUALIZED FITNESS

This course is designed to give students the knowledge necessary to develop an effective individualized fitness program. Also emphasized is the development and assessment of the four health-related physical fitness components: cardiovascular endurance, muscular strength and endurance, muscular flexibility, and body composition. Nutritional considerations, cardiovascular disease and cancer are also discussed.

1301. INTRODUCTION TO EXERCISE SCIENCE

This course introduces the student to the field of Exercise Science, including physical education and sport. This overview emphasizes historical trends in Exercise Science as they relate to the evolution of the major subdisciplines of the field.

2104. PHYSICAL ACTIVITY: VOLLEYBALL

This course is designed to present the activity of volleyball, so that the students become more proficient at this sport and increase their enjoyment, knowledge and understanding of it. Does not fulfill EXSI core requirement. Prerequisite: EXSI 1201.

2105. PHYSICAL ACTIVITY: TENNIS

This course is designed to present the activity of tennis, so that the students become more proficient at this sport and increase their enjoyment, knowledge and understanding of it. Does not fulfill EXSI core requirement. Prerequisite: EXSI 1201.

2106. PHYSICAL ACTIVITY: RACQUETBALL

This course is designed to present the activity of racquetball, so that the students become more pro-

ficient at this sport and increase their enjoyment, knowledge and understanding of it. Does not fulfill EXSI core requirement. Prerequisite: EXSI 1201.

2107. PHYSICAL ACTIVITY: SOFTBALL

This course is designed to present the activity of softball, so that the students become more proficient at this sport and increase their enjoyment, knowledge and understanding of it. Does not fulfill EXSI core requirement. Prerequisite: EXSI 1201.

2108. PHYSICAL ACTIVITY: JOGGING

This course is designed to present the activity of jogging, so that the students become more proficient at this sport and increase their enjoyment, knowledge and understanding of it. Does not fulfill EXSI core requirement. Prerequisite: EXSI 1201.

2109. PHYSICAL ACTIVITY: PICKLEBALL

This course is designed to present the activity of pickleball, so that students become more proficient at this sport and increase their enjoyment, knowledge and understanding of it. Does not fulfill EXSI core requirement. Prerequisite: EXSI 1201.

2302. SCIENTIFIC PRINCIPLES OF COACHING

This course introduces the student to the three scientific disciplines directly related to human performance: Sports Psychology, Biomechanics and Exercise Physiology. Categorization and presentation of information occurs in two separate areas: First, an investigation of the basis of human performance occurs. Secondly, scientific topics, directly applicable to coaching situations, are presented.

2305. SCIENTIFIC FOUNDATIONS OF STRENGTH AND CONDITIONING

This course is designed to provide EXSI majors with practical experiences related to strength training, fitness conditioning and personal training concepts. Students are introduced to the physiology of active human skeletal muscle and will learn how to apply this knowledge to the design of strength and conditioning programs for a variety of populations. This class is intended to prepare students for possible certification by the National Strength and Conditioning Association as certified strength and conditioning specialists.

2310. INTRODUCTION TO SPORT MANAGEMENT

This course investigates the scope of the sport industry nationally and internationally. Functions of management and requisite skills of sport managers will be a primary focus. Attention will be given to the managerial process and its relationship to sport organizations and their products. Students will become acquainted with career opportunities in the sport management field.

3307. PROGRAM ADMINISTRATION

This course addresses a variety of topics involved in the administration of fitness programming, including safety, emergency procedures, facility design and layout, risk stratification and dealing with special populations. As part of successful completion of the class, participants will earn First Aid/CPR and AED certification.

3320. MEASUREMENT AND EVALUATION IN EXERCISE SCIENCE

This course introduces the student to the statistical tools necessary to select, analyze and interpret test data, pertinent to the field of Exercise Science. Students also investigate various physical, cognitive and psychomotor tests and the importance of insuring validity, reliability and objectivity in testing procedures. Prerequisites: MATH 1310 and Junior standing.

3321. KINESIOLOGY

This course will assist the student in understanding the fundamentals of human movement. Emphasis will be placed on the study of the skeletal and muscular systems and the movements that are possible at the numerous articulations of the body. Principles learned in the course will allow the student to explain how and why the human body moves in the manner it does. The student will also learn to analyze biomechanical technique in advanced motor skills, as required in teaching and coaching complex movement. Prerequisites: BIOL 1403 & 1404 or consent of instructor and Junior standing.

3323. SPORTS LAW

This course is designed to provide physical educators, coaches and other practitioners in the field of exercise science with a background in fundamental legal considerations and the relationship to the working environment. Topics include: The nature of legal concern in physical education and sport; legal duties of practitioners in the field; supervision; safe environments; matters such as waivers, insurance, transportation; and the rights of practitioners and their clients/students. Prerequisite: Junior standing.

3398. INTERNSHIP IN EXERCISE SCIENCE

This course is designed to provide practical/clinical experiences to the non-teacher certification Exercise Science major. Course can be repeated once. Prerequisite: 75 hours earned.

3405. THEORY AND METHODS: TEACHING ACTIVITIES

This is the study of methods necessary to teach individual, dual and team activities in instructional settings. The course investigates training theories, philosophies and strategies of teaching, curricular considerations and other aspects of performance. Practical application and participation activities are conducted. Prerequisite: Junior standing.

3406. ADVANCED PHYSIOLOGY

This is an advanced study of the physiology of human systems, including weekly laboratory session. This course is intended for students preparing for graduate or professional school in the health sciences. Prerequisites: BIOL 1403, 1404 and junior standing, or consent of instructor. (3-3) See BIOL 3406.

4323. MOTOR LEARNING

A study of learning in the psychomotor domain. Motor learning theories are proposed to answer the questions, "How do individuals learn movement? How are motor skills best taught and learned? How can movement skills be most efficiently practiced?" Motor development in the young child is also discussed. Prerequisites: BIOL 1403 & 1404 or consent of instructor and Junior standing.

4324. ATHLETIC TRAINING: INJURY TREATMENT AND PREVENTION

Recognition, diagnosis, and treatment of athletic injuries. The study of methods of conditioning to prevent injury and rehabilitate injured athletes. Prerequisites: BIOL 1403 & 1404 or consent of instructor and Junior standing. (2-1)

4325. NUTRITION AND EXERCISE PERFORMANCE

This course will review the fundamental principles of human nutrition and the current knowledge of the impact of diet on human performance. The dietary nutrients that provide energy for movement, the factors that affect the sources of energy during exercise, and the concept of energy balance and its effect on body weight and body composition will be discussed. Prerequisites: BIOL 1403 & 1404, CHEM 1401 or 1403, and EXSI 4422, Junior standing.

4370. TOPICS IN EXERCISE SCIENCE

This course provides an in-depth study of various topics in Exercise Science, which may not be offered in the regular Exercise Science curriculum. This course may be repeated when the topics vary. Prerequisite: Junior standing.

4395. RESEARCH APPLICATIONS IN EXERCISE SCIENCE

Students are taught to understand the mechanisms of scientific discovery by completing a research project on a topic of their interest. Prerequisites: Senior status and 18 hours of EXSI.

4396. CERTIFICATION PREPARATION

This course prepares students to sit for a field-related certification examination offered by the respective certifying organization. The most expert faculty member in the chosen field will guide the student in an independent study of the exam material. At the end of the course, students are encouraged to register for and complete the certification examination or activities. Prerequisite: Senior status and 18 hours of EXSI

4422. PHYSIOLOGY OF EXERCISE

This course is designed to first review the basic physiology of three important bodily systems: muscular, cardiovascular and respiratory, and then to apply these concepts to the special situation of exercise stress both in a lecture and laboratory context. Weekly laboratory exercises will include investigation of maximal oxygen consumption, lactate and ventilatory threshold, parameters of muscular strength and EKG stress testing, among others. Prerequisites: BIOL 1403, 1404, and junior standing. (3-3)

FRENCH (FREN)

Students with a placement score at the level of FREN 1402 or above may, upon written request to the Registrar, be given credit for required courses at the appropriate level.

1401. ELEMENTARY FRENCH I

An introductory course which focuses upon basic reading, writing, listening and speaking of French. Significant aspects of French-language cultures are also addressed. This course is the first in a sequence of introductory French courses.

1402. ELEMENTARY FRENCH II

This course, a continuation of FREN 1401, expands reading, writing, listening and speaking skills as it expands knowledge of French-language cultural traits. Prerequisite: FREN 1401 or appropriate placement test score.

2303. (2311) INTERMEDIATE FRENCH I

This course provides a comprehensive review of major grammatical structures and vocabulary and expands upon them via cultural and contemporary readings. Course conducted primarily in French. Prerequisite: FREN 1402 or appropriate placement test score.

2304. (2312) INTERMEDIATE FRENCH II

This course expands upon information presented in FREN 2303. Course conducted primarily in French. Prerequisite: FREN 2303 or appropriate placement test score.

4370. TOPICS IN FRENCH

Classes on subjects not otherwise offered. May be repeated when topics vary. Prerequisite: FREN 2304.

4380. DIRECTED STUDY IN FRENCH

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate dean. Normally, students enrolling will have upper-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic.

GERMAN (GERM)

Students with a placement score at the level of GERM 1402 or above may, upon written request to the Registrar, be given credit for required courses at the appropriate level.

1401. ELEMENTARY GERMAN I

An introductory course which focuses upon basic reading, writing, listening and speaking of German. Significant aspects of German-language cultures are also addressed. This course is the first in a sequence of introductory German courses.

1402. ELEMENTARY GERMAN II

This course, a continuation of GERM 1401, expands reading, writing, listening and speaking skills as it expands knowledge of German-language cultural traits. Prerequisite: GERM 1401 or appropriate placement test score.

2303. (2311) INTERMEDIATE GERMAN I

This course provides a comprehensive review of major grammatical structures and vocabulary and expands upon them via cultural and contemporary readings. Course conducted primarily in German. Prerequisite: GERM 1402 or appropriate placement test score.

2304. (2312) INTERMEDIATE GERMAN II

This course expands upon information presented in GERM 2303. Course conducted primarily in German. Prerequisite: GERM 2303 or appropriate placement test score.

4370. TOPICS IN GERMAN

Classes on subjects not otherwise offered. May be repeated when topics vary. Prerequisite: GERM 2304.

4380. DIRECTED STUDY IN GERMAN

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate dean. Normally students enrolling will have upper-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic.

HISTORY (HIST)

Schreiner University offers courses leading to the Bachelor of Arts degree with a major in History, with concentrations in either American or European History. The program is designed to instill in students a broad and analytical outlook which is essential for a truly educated and productive citizen.

Lower level courses focus on acquisition of historical knowledge, historical thinking, writing skills, and conceptual analysis.

Upper division courses and seminars emphasize historical research, evaluation of sources, and critical historical analysis. The history faculty assumes that an objective and accurate assessment of historical trends will cultivate in each student a greater awareness and appreciation of contemporary society and lead to greater individual awareness and appreciation.

Employment opportunities for liberal arts graduates in general, and History majors in particular, are expanding significantly. History graduates are qualified to enter fields such as teaching, law, foreign and government service, paralegal professions, business, communications, and research. Both the major and minor in history prepare students for related graduate studies.

A major in History consists of the following:

HIST 1301, 1302, 1350, and 1351.

In addition, majors must have 24 advanced semester hours from the following:

at least 6 sem. hours from: HIST 3321, 3323, 3324, 3325, 3326

at least 3 sem. hours from: non-American, non-European

at least 6 sem. hours from: HIST 3305, 3306, 3307, 3311

HIST 4360 or 4399 is required.

Students seeking teacher certification in history should consult the Teacher Education section of this catalog for specific course selection.

1301. (1301) UNITED STATES HISTORY THROUGH THE CIVIL WAR

An analysis of United States history from its colonial foundations through the Civil War. Areas of study include the Revolution, the promulgation of the Constitution, the Federalist period, Jacksonianism, Manifest Destiny, and a causal analysis of the Civil War.

1302. (1302) UNITED STATES HISTORY SINCE THE CIVIL WAR

A continuation of United States history covering such topics as Reconstruction, Populism, Progressivism, the two world wars, and the post-World War II period.

1350. (2321) WORLD CIVILIZATIONS TO 1600

A historical study of man from ancient times to the beginning of the modern age. Emphasis is on the social, cultural, and intellectual history of the period.

1351. (2322) WORLD CIVILIZATIONS FROM 1600

A historical study of the rise of man from the Renaissance. Topics include the rise of modern thought, the genesis of modern science, industrialism and its byproducts, nationalism, and the two world wars. The emphasis is on the intellectual, social, and cultural history of the period.

2170. TOPICS IN HISTORY

In-depth study of particular topics in history, either American, European, non-Western. May be repeated when topics vary.

2270. TOPICS IN HISTORY

In-depth study of particular topics in history, either American, European, non-Western. May be repeated when topics vary.

2303. (2301) TEXAS HISTORY

A study of Texas from 1517 to the present. Topics include colonial status, nationhood, statehood; reconstruction; the rise of the cattle kingdom; expansion of transportation and industry; and recent political, economic, and social developments.

3301. SOCIAL STUDIES FOR TEACHERS, ELEMENTARY GRADES

Designed for students preparing for careers in elementary school education. This course focuses on providing an integrated approach to social studies with an emphasis on the geography of Texas, the United States, and the world, including map skills. Objectives cover essential elements required to prepare teachers of social studies in Texas elementary schools. May not be used to satisfy upper level history requirements either for a major in history or for the General Studies two-field secondary certification in history. Prerequisites: HIST 2303 recommended, Junior standing and admission to the Teacher Education Program.

3305. UNITED STATES CONSTITUTIONAL HISTORY

This course is a constitutional study of the United States with emphasis on those Supreme Court decisions that have altered the social, economic, and political institutions of American society from 1781 to the present. Prerequisite: Junior standing or consent of instructor. See POLS 3305.

3306. AMERICAN CONTROVERSY AND CONFLICT

Study of major conflicts in America from 1816 to the present. Emphasis is placed on the social, economic, and political struggles. Prerequisite: Junior standing or consent of instructor.

3307. CIVIL WAR AND RECONSTRUCTION

Indepth causal analysis of the Civil War and the tensions generated from the Reconstruction era. Prerequisite: Junior standing or consent of instructor.

3311. UNITED STATES HISTORY FROM 1945

A history of our recent past designed to help students develop a thorough understanding of contemporary United States society. Special emphasis will be given to the major domestic, political, diplomatic, social, and cultural events of the period. Prerequisite: HIST 1302 or consent of instructor.

3321. THE REFORMATION ERA

A comprehensive treatment of the period from 1500 through 1650, during which time the unifying umbrella of Christianity was shattered. Topics include a causal analysis of the Reformation, Lutheranism, the spread of Protestantism and the Catholic revival, and religious conflicts and consequences. See RELI 3321.

3323. EUROPE, 1789-1850

A study of Europe with particular emphasis on the breakdown of the Old Regime, the French Revolution, the Napoleonic Imperium, the Restoration period, and the causes and results of the 1848 Revolutions. Prerequisite: HIST 1351 or consent of instructor.

3324. EUROPE, 1850-1920

The study of middle and late nineteenth century Europe, the unification of Italy and Germany, Imperialism, the rise of "subjectivity" in thought and culture. World War I, and the dissolution of Old Europe. Prerequisite: HIST 1351 or consent of instructor.

3325. EUROPE SINCE 1920

The twentieth century attempts at problem-solving by peace settlements and international organizations, the rise of totalitarian societies and World War II, and consideration of the aftermath of the political collapse of Europe. Prerequisite: HIST 1351 or consent of instructor.

3326. EARLY MODERN EUROPE, 1400-1789

An in-depth analysis of the crucial period of transition from the end of the Middle Ages to the Ancient Regime. Topics include the Renaissance, Scientific Revolution and the emergence of a new world-view, constitutionalism and the English civil war, the rise of Industrialism, and the Enlightenment and Neo-classicism. Prerequisites: HIST 1350 or HIST 1351, or consent of instructor.

3352. HISTORY OF MEXICO

History of Mexico before 1910 and more intensive study of the later periods. Both domestic and foreign affairs considered; emphasis on Mexico's relations with other nations of the Western World. Prerequisite: Twelve semester hours of history and/or political science.

3395. READINGS IN U.S. HISTORY

This course is an in-depth analysis of American history from the colonial period to contemporary times based on the reading of significant historical texts. Prerequisite: Junior standing or consent of instructor.

4360. DISCOURSES IN HISTORY

A capstone course that focuses on an in-depth analysis of historical inquiry; its nature, process, lessons, limitations, and value. Prerequisites: 24 hours of history and senior status, or consent of instructor.

4370. TOPICS IN HISTORY

Specific in-depth and analytical study of particular topics in history, either American, European, or non-Western. May be repeated when topics vary.

4380. DIRECTED STUDY IN HISTORY

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate dean. Normally students enrolling will have upper-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic.

4399. SENIOR PROJECT IN HISTORY

Independent capstone research investigation culminating in a senior thesis or comparable senior project.

HUMANITIES

The Humanities major is a multidisciplinary combination of courses at the advanced level supported by breadth of work at the lower level. This major serves students seeking preparation broader than that available in a single discipline.

A major in Humanities consists of 24 hours collateral courses including PHIL 1301 plus the following: ENGL 2341, MUSC 1303, THRE 1301, RELI 1303 or 1320, ART 2340, ART 2341, and either ART 1301, ART 1340, ART 2310 or ART 2322. The 24 advanced hours include THRE 3301 or 3302, HIST 3326, POLS 3351 and the Senior Project. Twelve hours must be selected from upper level Art, English, History, Music, Religion or Theatre.

The capstone experience may be satisfied by the senior project or an alternative course accepted in the following majors: English, History or Religion.

INFORMATION SYSTEMS (IS)

Schreiner University offers courses in Information Systems (IS) leading to a Bachelor of Business Administration (B.B.A.) degree in Management Information Systems (M.I.S.). Students may also minor in IS. With a combination of Business and Information Systems courses provided by the M.I.S. major, students will acquire the requisite knowledge of information systems management and a substantial business background to help them succeed in the modern business world. Likewise, students who choose to minor in IS will add valuable computer skills to enhance their chosen discipline.

The major in Management Information Systems consists of the following IS courses: IS 3310, 3330, 3331, 3332, 4331, 4333, 4350, 4360, 4398, to total 123 hours. In addition to the core requirements, the following collateral courses are required for the major: ENGL 3303, BSAD 3310, 3320, 3331, 3360 and IS 2310, 2320, 2330 and 2360.

A minor in Information Systems (IS) consists of 27 hours as follows: IS 2301, 2310, 2320, 2330, 2360, 3310, 3330, 3331, and 3332.

2301. COMPUTER CONCEPTS AND APPLICATIONS

Introduction to computer concepts including computer hardware, software, and workplace issues. Hands-on use of the Internet and popular software.

2310. INTRODUCTION TO PROGRAMMING LOGIC

This course covers basic program development and problem solving, pseudo-code development, program development and application, and introduction to object-oriented programming. Hands-on development of computer programs. Prerequisite: IS 2301 or consent of instructor.

2320. FUNDAMENTALS OF INFORMATION SYSTEMS

This is an introduction to information systems concepts, design of information systems, procedural versus non-procedural programming languages, object-oriented analysis and design, networks and telecommunications systems and applications, characteristics of Information Systems career paths. Prerequisite: IS 2301 or consent of instructor.

2330. PRODUCTIVITY SOFTWARE

Productivity concepts and the effective use of packaged software to enable students to improve their skills as knowledge workers. Both individual and group productivity is covered. Prerequisite: IS 2301 or consent of instructor.

2360. HARDWARE AND SYSTEM SOFTWARE

Principles and applications of computer hardware and software will be presented through lecture of the theoretical underpinnings, installation, configuration, and operational laboratory experiences. Prerequisites: IS 2320 and 2330 or consent of instructor.

2370. TOPICS IN INFORMATION SYSTEMS

Study of a computer-related topic or topics. May be repeated when topics vary. Prerequisite: Consent of instructor.

3310. ELECTRONIC BUSINESS

This course focuses on the linkage between organizational strategy and networked information technologies to implement a rich variety of business models. This course provides an introduction to e-

business strategy and the development and architecture of e-business solutions and their components. Prerequisites: IS 2320 and 2330, or consent of instructor.

3321. INFORMATION SYSTEMS FOR BUSINESS TEACHERS

This course is designed to expose business education teachers to the broad range of business computer information systems: impact of information technology, roles of computer technology in specific business contexts, hardware and how components interface, operating systems, software applications, fundamentals of computer networks, programming languages for solving business problems, ethical legal issues relevant to the use of computer information systems, computer security, health and safety issues, and computer laboratory management. Prerequisites: IS 2301, junior standing, and admission to the Teacher Education Program.

3330. INFORMATION SYSTEMS THEORY AND PRACTICE

Overview of Information Systems theory and practice, including information and organizational systems, planning and implementation, decision theory, information theory, project management, quality control, human-computer interface, network administration, client/server computing and database management. Prerequisites: IS 2320 and 2330 or consent of instructor.

3331. SYSTEMS ANALYSIS AND DESIGN

Provides an understanding of the information system development and modification process, including evaluation of system development methodologies, understanding effective communication and integration with users and user systems, developing interpersonal skills with clients, users and team members and the adherence to systems development life cycle standards. Hands-on experience with object-oriented analysis and design and data modeling tools. Prerequisites: IS 2320 and 2330 or consent of instructor.

3332. OBJECT-ORIENTED PROGRAMMING

This is a study of object-oriented programming (OOP), including concepts of objects, classes, encapsulation, collections, abstract data types, extensions, constructors, information hiding, inheritance, polymorphism and programming concepts of pointers, vectors, arrays and data structures. Understanding of computer algorithms and their construction and how they are used to solve problems. Hands-on development of computer programs. Prerequisite: IS 2310 and 2360 or consent of instructor.

4331. NETWORK FUNDAMENTALS

An in-depth study of data communications and networking requirements, including associated technologies, hardware and software. Analysis and design of networking applications in organizations. Management of telecommunications networks, cost-benefit analysis and evaluation of connectivity options. Hands-on experience with network design and implementation. Prerequisites: IS 3310, 3330, 3331 and 3332, or consent of instructor.

4333. DATABASE MANAGEMENT

An overview of database design, development, maintenance and management, including information and organizational theory, determining database requirements, relational and object-oriented data models and implementation and user interfaces. Hands-on experience with database design, construction and maintenance using SQL and other DBMS tools. Prerequisite: IS 3330 or consent of instructor.

4350. EMERGING TECHNOLOGIES

Students will implement an information system in an emerging system environment. Teams will use project management principles to implement an information system. Prerequisite: IS 4333 or consent of instructor.

4360. PROJECT MANAGEMENT

Advanced IS majors operating as a high-performance team will engage in and complete the design and implementation of a significant information system. Project management, management of the IS function, and systems integration will be components of the project experience. Prerequisite: IS 4333 or consent of instructor.

4370. TOPICS IN INFORMATION SYSTEMS

Selected topics in the field of information systems. Topics will vary, course may be repeated when topics vary. Prerequisite: consent of instructor.

4380. DIRECTED STUDY IN INFORMATION SYSTEMS

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate dean. Normally, students enrolling will have upper-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic. Prerequisite: Consent of instructor.

4398. INTERNSHIP IN INFORMATION SYSTEMS

Supervised field employment which provides the opportunity for the student to apply learning to practical job experience. Prerequisite: Senior status and 12 hours of upper level IS courses.

INTERDISCIPLINARY STUDIES (IDST)

1101. FRESHMAN SEMINAR

A course designed to increase student success in college by enhancing academic skills.

1105. HONORS SEMINAR

A discussion group designed specifically for provisional honors students. Topics will span a wide range of ideas and will include The World of Politics, Economics, Psychology, Science, Philosophy, and The Arts. Prerequisite: Provisional acceptance into the Honors Program.

2170. TOPICS IN INTERDISCIPLINARY STUDIES

Study of topics not otherwise covered in course offerings. May be repeated when topics vary.

2200. CAREER EXPLORATION INTERNSHIP

Supervised field employment which provides the opportunity for the student to define career choices. This course does not fulfill a senior-level internship requirement.

2205. CRITICAL THINKING

A study of the process by which one develops and supports one's beliefs with clear, unambiguous arguments and evaluates the soundness of the arguments of others in real life situations.

2270. TOPICS IN INTERDISCIPLINARY STUDIES

Study of topics not otherwise covered in course offerings. May be repeated when topics vary.

3205. HONORS COLLOQUIUM: AMERICAN CULTURE

A focused research and discussion group with an American-studies emphasis designed specifically for honors students. Topics may include rock & roll culture, American road stories, and the movie indus-

try's influence on American culture. May be repeated for credit. Prerequisite(s): Junior level standing, honors students; non-honors students may take the course with permission of the instructor.

3230. THE ROLE AND POWER OF CULTURE

The study of culture, its components, and a critical examination of non-Western cultures for the purpose of comparative analysis with the United States.

3260. THE AESTHETIC EXPERIENCE

An introduction to the nature of beauty and aesthetic experience. Topics include the qualities of beauty, where it can be found, and the development of aesthetic understanding and appreciation.

4170. TOPICS IN INTERDISCIPLINARY STUDIES

Study of topics not otherwise covered in course offerings. May be repeated when topics vary.

4240. GLOBAL ISSUES IN A CULTURAL CONTEXT

A study of the major problems confronting the world today from the perspective of different cultures as a means of better understanding both the origins and potential solutions to those problems. Prerequisites: IDST 2205 and at least 75 hours of earned credit.

4270. TOPICS IN INTERDISCIPLINARY STUDIES

Study of topics not otherwise covered in course offerings. May be repeated when topics vary.

4370. TOPICS IN INTERDISCIPLINARY STUDIES

Study of topics not otherwise covered in course offerings. May be repeated when topics vary.

4399. SENIOR PROJECT

Designed for B.A. students who are pursuing the general studies option and whose degree plan is interdisciplinary in nature. Independent capstone research investigation culminating in a senior thesis or comparable senior project.

MATHEMATICS (MATH)

Schreiner University offers courses leading to the Bachelor of Arts degree and the Bachelor of Science degree with a major in Mathematics. The Mathematics program is designed for those students who wish to pursue a career in business or in education. It also builds a solid foundation for advanced study in Mathematics. Students who wish to become teachers can use the required professional education courses as electives in the prescribed program.

French or German is recommended as foreign language.

The major in Mathematics consists of 25 advanced hours.

For the (B.A. degree): MATH 2422, 2423, 3301, 3312, 3313, 3324, 3425. Either 4310, 4321, 4326, 4333, or 4399 must be designated as the capstone experience. PHYS 1401 and 1402 are recommended electives.

For the (B.S. degree): MATH 2422, 2423, 3301, 3305, 3330, 3312, 3313, 3324, 3425. Either 4310, 4321, 4326, 4333, or 4399 must be designated as the capstone experience. In addition PHYS 1401, 1402, IS 2310, 6 hours of additional information systems, and ENGL 1302.

Students who did not enroll in MATH 2422 and MATH 2423 to satisfy their basic Mathematics distribution requirement must schedule these courses as part of their electives.

NOTE: If a student is not prepared to enroll in MATH 2422 and MATH 2423 in his freshman year, he should enroll in MATH 1310 or MATH 1321. In this event the student should then enroll in MATH 2422 and MATH 2423 in sequence the next two semesters.

Students completing MATH 1321 at Schreiner University with a grade of “C” or better will, upon written request to the Registrar, be given credit for MATH 1310. Students completing either MATH 2422 or a more advanced mathematics course at Schreiner University with a grade of “C” or better will, upon written request to the Registrar, be given credit for MATH 1310 and MATH 1321.

Students who plan to major in Mathematics, Information Systems, Physics, Chemistry, or Engineering should enroll in MATH 2422 and MATH 2423 if their background in mathematics is sufficiently good. If not, they should enroll in MATH 1310 or MATH 1321 first. Students majoring in Business Administration should enroll in either of these: (1) MATH 1311, or (2) MATH 2422. If not, they should take MATH 1310 first.

Students seeking teacher certification in mathematics should consult the Teacher Education section of this catalog for specific course selection.

Placement in mathematics courses is based on mathematics placement assessment.

0303. ALGEBRA REVIEW

A review of high school algebra, including problem solving with real numbers, linear and quadratic equations, fractions and graphing, polynomials, factoring, exponents, and radicals. Prerequisite: Satisfactory performance on math placement assessment. This course does not satisfy degree requirements.

0401. DEVELOPMENTAL ALGEBRA

This development course is for students with little or no experience with algebra. It includes problem solving with real numbers, linear and quadratic equations, fractions and graphing, polynomials, factoring, exponents and radicals. The content of this course is identical to MATH 0303, with additional problem-solving lab time. This course does not satisfy degree requirements.

1302. MATHEMATICS FOR THE LIBERAL ARTS

Problem solving with practical applications of mathematics in personal finance, geometry, probability, statistics, mathematical modeling, and graphing. The use of technology, communication in mathematics, and the role of mathematics in modern culture are investigated. Prerequisites: Satisfactory completion of MATH 0401 or MATH 0303 or 2 years of high school Algebra and ACT 18 or SAT 430.

1310. (1314) COLLEGE ALGEBRA

Linear equations and inequalities, exponents and radicals, factoring, rational expressions, quadratic equations, functions, inverse functions and graphs. Prerequisites: Satisfactory completion of MATH 0401 or 0303 or ACT 18 or SAT 430 and 2 years of Algebra.

1311. (1324) FINITE MATHEMATICS

Sets, mathematics of finance, matrices, inequalities and linear programming, combinatorics, probability distributions and statistics. Prerequisites: MATH 1310 with a grade of “C” or two years of high school algebra and a score of 19 or more on the mathematics portion of the ACT or 440 on the mathematics portion of the SAT.

1321. (2312) PRECALCULUS

Analytic geometry and trigonometry. Study of elementary functions, their graphs and applications including algebraic, polynomial, and rational functions, trigonometric, exponential, and logarithmic functions; conic sections; complex numbers. Prerequisites: MATH 1310, with a grade of “C” or two years of high school algebra and a score of 19 or more on Mathematics portion of the ACT or 440 on the Mathematics portion of the SAT.

2170. TOPICS IN MATHEMATICS

Selected topics in the field of mathematics. Topics will vary; course may be repeated when topics vary. May not be applied toward mathematics or science requirement. Prerequisite: Sophomore standing or consent of instructor.

2270. TOPICS IN MATHEMATICS

Selected topics in the field of mathematics. Topics will vary; course may be repeated when topics vary. May not be applied toward mathematics or science requirement. Prerequisite: Sophomore standing or consent of instructor.

2422. (2413) CALCULUS I

A thorough introduction to the theory and applications of differential and integral calculus. Topics include properties of real numbers, sets, two- and three-dimensional analytic geometry with vectors, rectangular, polar, cylindrical coordinate systems, functions, limits, continuity, derivatives, integrals and the mean value theorem. Recommended for students who plan to major in mathematics, engineering, physics, chemistry, and premedical programs. Prerequisites: Two years of high school algebra, one year of high school geometry, one-half year of high school trigonometry and a score of 26 or more on the Mathematics portion of the ACT or 540 on the Mathematics portion of the SAT or MATH 1321 or consent of the instructor. (3-2).

2423. (2414) CALCULUS II

Topics include the fundamental theorem of calculus, techniques of integration, infinite series, area, volumes, moments, centroids, arc length, calculus of functions several variables, trapezoidal and Simpson’s Rule. Prerequisite: MATH 2422. (3-2).

3102. MATH WITH MANIPULATIVES AND TECHNOLOGY

This course addresses Texas Essential Knowledge and Skills (TEKS) through the use of manipulatives and technology. May not be used to satisfy upper level mathematics requirements for a major in mathematics. Prerequisites: MATH 1310, Junior standing, admission to Teacher Education Program, or consent of instructor and **concurrent registration in MATH 3302**.

3301. MODERN GEOMETRY

Historical development, sets and propositions, coordinate geometry, congruences, the complex plane, constructions, postulational systems, postulates for the Euclidean Plane, and postulates for the Non-Euclidean Plane. May not be used to satisfy upper level mathematics requirements for a major in mathematics. Prerequisite: MATH 2422 or equivalent or consent of instructor.

3302. MATHEMATICS FOR TEACHERS

This course focuses on mathematics concepts explored in Texas public schools. A problem-solving, hands-on approach is used. May not be used to satisfy upper level mathematics requirements for a major in mathematics or secondary certification in mathematics. Prerequisites: MATH 1310, Junior standing, admission to Teacher Education Program, or consent of instructor and **concurrent registration in MATH 3102**. (3-2).

3304. SECONDARY MATHEMATICS PEDAGOGY AND TECHNOLOGY

This course focuses on the pedagogy and technology appropriate to teaching mathematics at the secondary level in Texas public schools. A problem-solving, hands-on approach is used. May not be used to satisfy upper level mathematics requirements for a major in mathematics. Prerequisites: MATH 2422, 3301, admission to Teacher Education Program, or consent of instructor.

3305. SURVEY OF MATHEMATICS

A survey of mathematical concepts including, but not limited to algebra, geometry, trigonometry, graph theory, analytic geometry, series, sequences, calculus, linear algebra and abstract algebra. This course is required of all secondary education majors in mathematics. May not be used to satisfy major upper division credit requirements. Prerequisites: Six hours of advanced mathematics and department approval.

3312. LINEAR ALGEBRA

Abstract notions of linear algebra including vector spaces and linear transformations and the applications of these concepts using matrices and determinants. Prerequisite: MATH 2422 or consent of instructor.

3313. ABSTRACT ALGEBRA

Fundamental concepts of abstract algebra. Groups, Rings, and Fields with the emphasis on Groups. Prerequisite: MATH 2423.

3324. CALCULUS III

Sets; functions, vector fields; partial derivatives; power series; theory of integration; line, surface, and multiple integrals. Prerequisite: MATH 2423.

3330. APPLIED STATISTICS

Design of experiments, descriptive statistics, correlation and regression, probability, estimation and inference, test of hypothesis and significance, chance models, analysis of variance. This course is designed for students preparing for careers in business, the natural sciences and social sciences, or for teaching with a specialization in mathematics. Prerequisite: MATH 1310 or equivalent (MATH 1311 or 1321 recommended).

3425. DIFFERENTIAL EQUATIONS

Theory, solutions and application of ordinary differential equations with introduction to partial differential equations. First order linear and non-linear equations, linear equations with constant coefficients, nth-order initial value problems, variation of parameters, infinite series solutions, systems of differential equations using matrices. Computer solutions are incorporated into classwork and homework. Prerequisite: MATH 2423. (3-2).

4170. TOPICS IN MATHEMATICS

Selected topics in the field of mathematics. Topics will vary; course may be repeated when topics vary. Prerequisite: Junior standing.

4270. TOPICS IN MATHEMATICS

Selected topics in the field of mathematics. Topics will vary; course may be repeated when topics vary. Prerequisite: Junior standing.

4310. INTRODUCTION TO REAL ANALYSIS

This course is a study of the real number system, sequences, series, limits, derivatives and integrals of real-valued functions; set theory, logic and techniques of proof. Prerequisites: MATH 2423 and junior standing or consent of instructor.

4321. COMPLEX VARIABLES

A study of the fundamentals of differentiation and integration theory of complex variables. Prerequisite: Credit for or concurrent enrollment in MATH 3324.

4326. INTRODUCTION TO NUMERICAL ANALYSIS

Interpolation; approximations; numerical integration and differentiation; roots of polynomial equations; numerical linear algebra; solution of ordinary differential equations; computer applications when appropriate. Prerequisite: MATH 2423.

4333. PROBABILITY

A course in the mathematical theory of probability. Includes sample spaces, relative frequency, discrete and continuous random variables of one and higher dimensions, expected value, variance, correlation and regression, distributions, reliability theory, sums of random variables, sampling, estimation of parameters, and testing of hypothesis. Prerequisite: MATH 2423 or consent of instructor.

4370. TOPICS IN MATHEMATICS

Selected topics in the field of mathematics. Topics will vary but may include number theory, real analysis, topology, algebra and logic. Course may be repeated when topics vary. Prerequisite: Junior standing or consent of instructor.

4380. DIRECTED STUDY IN MATHEMATICS

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate dean. Normally students enrolling will have upper-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic.

4399. SENIOR PROJECT IN MATHEMATICS

Independent capstone research investigation culminating in a senior thesis or comparable senior project.

MUSIC (MUSC)

Recognizing that music has been an integral part of life since the dawn of human history, the Schreiner University Music Department offers an opportunity for students to enrich their association with music by increasing their understanding of the art through academic courses and through performance instruction and venues.

Schreiner University provides majors for the following areas: piano, voice, organ, harp, guitar, and violin. Applied lessons for other instruments will depend on adjunct faculty availability. Please contact the Music Department for further information.

For any incoming students wishing to *begin* a Music major degree, an audition is required. These auditions will be held during the *Schreiner Saturday* events or by sending a tape or CD recording of the students' performance to the Admission Office. For audition requirements, please contact the Music Department Director.

Schreiner offers courses leading to a major in music within the Bachelor of Arts degree program. Expertise in music is a constant source of enrichment throughout life. The Bachelor of Arts degree in Music would allow students to teach private lessons, direct a church ministry music program, work in public/private school systems directing a choral program or teaching elementary music or general music on the post-elementary level, and would prepare students for graduate work in music. The minor in music program should also equip a student to be involved in a church's music ministry program, and perhaps to teach private lessons.

A major in music includes:

MUSC 1304, 1305
MUSC 1102 or 1103 - 6 hours
MUSC 1110, 1111, 2105 or 4105
IDST 3260 (non-western music)

Plus 24 advanced hours:

MUSC 3104, 3109 - (6 hours)
MUSC 3301, 3302, 3305, 4399

An additional 6 advanced hours of music. (3000 level or above)

To complete the Music Major degree plan in four years, it is strongly recommended that a successful audition is completed sometime during the Spring semester of the freshman year. For those students who decide to pursue a Music Major after their freshman year, they need to be aware that the degree plan may not be completed in four years.

In addition, those whose applied music area is not piano, must demonstrate proficiency in piano performance at least on the early intermediate level, or take Piano Fundamentals and/or Applied Music in Piano. Those whose applied music area is voice must take German or French 1401.

For students who may need access to certain orchestral instruments or guitars, Schreiner's Music Department has an instrumental loan policy which allows students to rent instruments for a nominal fee per semester. Please contact the Music Department for information.

Students seeking teacher certification in Music should consult the Teacher Education section of this catalog for specific course selection.

1102. UNIVERSITY CHOIR

Singing in the primary campus choral ensemble. Will include training in voice production and musicianship. Three to four hours of rehearsal weekly. May be repeated for credit. Prerequisite: Audition.

1103. INSTRUMENTAL ENSEMBLE

Practice and performance with an instrumental group. May be repeated for credit. Prerequisite: Audition.

1104. APPLIED MUSIC: VOICE

Private instruction in voice. One thirty-minute lesson per week. Student is expected to practice at least 6 hours per week. May be repeated for credit. Laboratory fee to be assessed.

1105. APPLIED MUSIC: PIANO

Private instruction in piano. One thirty-minute lesson per week. Student is expected to practice at least 6 hours per week. May be repeated for credit. Prerequisite: MUSC 1203 or consent of instructor. Laboratory fee to be assessed.

1106. APPLIED MUSIC: ORGAN

Private instruction in organ. One thirty-minute lesson per week. Student is expected to practice at least 6 hours per week. May be repeated for credit. Laboratory fee to be assessed.

1107. APPLIED MUSIC: GUITAR

Private instruction in guitar. One thirty-minute lesson per week. Student is expected to practice at least 6 hours per week. May be repeated for credit. Laboratory fee to be assessed.

1108. APPLIED MUSIC: HARP

Private instruction in harp. One thirty-minute lesson per week. Student is expected to practice at least 6 hours per week. May be repeated for credit. Laboratory fee to be assessed.

1109. APPLIED MUSIC: ORCHESTRAL INSTRUMENT

Private instruction in an orchestral instrument. One thirty-minute lesson per week. Student is expected to practice at least 6 hours per week. May be repeated for credit. Laboratory fee to be assessed.

1110. SIGHT-SINGING AND EAR TRAINING I

Singing intervals and simple rhythms from the score. Singing simple melodies. Melodic and rhythmic dictation.

1111. SIGHT-SINGING AND EAR TRAINING II

Singing melodies and rhythms, including melodies with chromatic alterations, compound meters, less familiar metric groupings. Dictation in more than one part. Prerequisite: MUSC 1110.

1201. VOICE CLASS FOR BEGINNERS

This course includes basic vocal training, breathing techniques, posture, learning songs, listening, and appreciating various vocal styles.

1203. PIANO FUNDAMENTALS I

Course includes playing from treble and bass clefs, keyboard harmony, technical rudiments, simple two-hand pieces.

1303. INTRODUCTION TO MUSIC

An introduction to the art of musical understanding. Topics include musical elements, musical styles and periods, composers and their works, and musical forms. Emphasis will be upon music of Western Civilization. Students will be required to listen to music outside class time in addition to that played during class.

1304. MUSIC THEORY I

A study of fundamentals of music, tonal harmony, ear training, and keyboard drill. Students will have the opportunity to practice sight-singing and ear-training skills during a one-hour session in addition to class time, the time to be arranged. Prerequisite: The submitted statement about piano proficiency.

1305. MUSIC THEORY II

A continuation of Music Theory I, with more emphasis on dictation, analysis, and composition. A one-hour session in addition to class time, the time to be arranged. Prerequisite: MUSC 1304.

2105. APPLIED MUSIC: PIANO PROFICIENCY

Private instruction in piano for non-piano majors. This course will be tailored to prepare the student to pass the piano proficiency examination. One, thirty-minute lesson per week. Student is expected to practice at least six hours per week. Prerequisite: MUSC 1105 or consent of instructor.

3104. ADVANCED APPLIED MUSIC: VOICE

Individual instruction in voice on an advanced level. One sixty-minute lesson per week. Student is expected to practice at least 10 hours per week. Prerequisite: Audition with instructor. May be repeated for credit. Laboratory fee to be assessed.

3105. ADVANCED APPLIED MUSIC: PIANO

Individual instruction in piano on an advanced level. One sixty-minute lesson per week. Student is expected to practice at least 10 hours per week. Prerequisite: Audition with instructor. May be repeated for credit. Laboratory fee to be assessed.

3106. ADVANCED APPLIED MUSIC: ORGAN

Individual instruction in organ on an advanced level. One sixty-minute lesson per week. Student is expected to practice at least 10 hours per week. Prerequisite: Audition with instructor. May be repeated for credit. Laboratory fee to be assessed.

3107. ADVANCED APPLIED MUSIC: GUITAR

Individual instruction in guitar on an advanced level. One sixty-minute lesson per week. Student is expected to practice at least 10 hours per week. Prerequisite: Audition with instructor. May be repeated for credit. Laboratory fee to be assessed.

3108. ADVANCED APPLIED MUSIC: HARP

Individual instruction in harp on an advanced level. One sixty-minute lesson per week. Student is expected to practice at least 10 hours per week. Prerequisite: Audition with instructor. May be repeated for credit. Laboratory fee to be assessed.

3109. ADVANCED APPLIED MUSIC: ORCHESTRAL INSTRUMENTS

Individual instruction in an orchestral instrument, other than harp, on an advanced level. One, sixty-minute lesson per week. Student is expected to practice at least 10 hours per week. Prerequisite: Audition with instructor and permission of music director. May be repeated for credit. Laboratory fee to be assessed.

3201. INSTRUMENTAL METHODS I

This course includes learning to play and to teach String and Percussion instruments. Students will have experience learning and playing each of the orchestral strings (violin, viola, cello, double bass) and the principal percussion instruments (timpani, snare, marimba).

3202. INSTRUMENTAL METHODS II

This course includes learning to play and to teach Woodwind and Brass instruments. Students will have experience learning and playing each of the principal orchestral woodwinds (flute, oboe, clarinet, bassoon) and brass (trumpet, French horn, trombone).

3301. HISTORY OF WESTERN MUSIC TO 1750

A study of styles, techniques, and composers of music of Western civilizations from the Middle Ages through the Baroque. Prerequisite: 6 hours music or consent of instructor.

3302. HISTORY OF WESTERN MUSIC SINCE 1750

A study of styles, techniques and composers of music of Western civilizations from the beginnings of styles following the Baroque until the present. Prerequisite: 6 hours music or consent of instructor.

3303. HISTORY AND PRACTICE OF SACRED MUSIC

A study of the development of the various service formats of the Christian church, the types of music developed for them and its relationship to secular music, and the practical use of different styles of music in worship today. Prerequisite: 6 hours music or consent of instructor. See RELI 3303.

3304. TEACHING CHILDREN MUSIC

Specific techniques and materials for developing a child's understanding of and skills in music. Focus is on the home and classroom, not private studio teaching. Prerequisite: 6 hours music or consent of instructor.

3305. BEGINNING CONDUCTING

Study and practice of conducting patterns for regular and irregular beat patterns, subdivisions, and compound meters and of expressive gestures. Analysis of rehearsal and conducting techniques for representative instrumental and choral works. Practice conducting with campus groups. Prerequisite: Junior standing and completion of nine credit hours in music.

3306. VOCAL PEDAGOGY

This course is a study of vocal techniques. Vocal acoustics, breathing, and laryngeal function are also studied. Teaching strategies and philosophies, diagnosis of vocal problems, vocal repertoire, and ethics for teachers will be examined. Students also gain practical, supervised experience in teaching by working with a volunteer student as a course project. The course also includes periodic examinations. Prerequisite: Junior standing.

4105. KEYBOARD HARMONY AND MUSICAL SKILLS

This course is private instruction in piano, for piano and organ majors. It will be tailored to prepare the student to pass the keyboard harmony and musical skills examination. One, thirty-minute lesson per week. Student is expected to practice at least six hours per week. Prerequisite: MUSC 3105 or 3106 or consent of instructor.

4370. TOPICS IN MUSIC

In-depth study of particular topics in music. May be repeated when topics vary. Prerequisite: Junior standing.

4399. SENIOR PROJECT/RECITAL IN MUSIC

Senior capstone course that includes preparation and presentation of a public recital of approximately one hour in length in the student's principal applied music area. During the same semester, student will prepare a written document of some musical elements of works performed. In the case of a student whose principal field of emphasis is composition or theory, the recital would be of his or her works, though not necessarily performed by the composer. Prerequisites: Senior standing and 12 hours advanced music including at least 3 hours of advanced applied music.

PHILOSOPHY (PHIL)

1301. (1301) INTRODUCTION TO PHILOSOPHY

An introduction to the basic principles and concepts in Western philosophy. Problems about the nature of God, minds, the physical world, and freewill are approached through a close study of classical and contemporary philosophical writings.

1310. (2306) INTRODUCTION TO ETHICS

A study of the dominant theories about the nature of morality, including utilitarianism, deontology, relativism, and their application to practical and timely moral issues.

2311. BUSINESS ETHICS

An in-depth analysis of ethical issues confronting contemporary business. Topics include the social responsibilities of business, ethics in advertising, the ethics of capitalism and socialism, corporate loyalty, and the profit motive. Prerequisite: sophomore standing or consent of instructor.

2312. ENVIRONMENTAL ETHICS

A thorough introduction to the major issues in environmental ethics and the proposals suggested for adequately and justly dealing with those issues. Topics include: Animal Rights, The Moral Implications of Darwinism, Ecology, The Ethics of Environmental Activism, Moral Issues Associated with Endangered Species, The Interests of Nonhumans, and Respect for Nature, and the Moral Standing of Other Species, Natural Objects and Ecosystems.

2320. (2303) INTRODUCTION TO LOGIC

A study of the basic systems of logical thinking; inductive, deductive, syllogistic and propositional logic, and their applications. May be substituted for IDST 2205 upon written application to the Registrar.

3330. METAPHYSICS

A study of the major ideas about the ultimate nature of reality; focus on problems dealing with existence, mind, matter, space, time, and universals. Prerequisites: Two philosophy courses and Junior standing, or consent of instructor.

3340. ANCIENT AND MEDIEVAL PHILOSOPHY

A critical study of the major philosophical ideas and the dominant thinkers in ancient and medieval times; emphasis on the Pre-Socratics, Plato, Aristotle, Augustine, and Aquinas. Prerequisites: PHIL 1301 or HIST 1350, and Junior standing.

3350. EARLY MODERN PHILOSOPHY

The foundations and possibility of genuine knowledge; rationalism, empiricism, critical idealism, skepticism. Emphasis on Descartes, Leibnitz, Locke, Hume, and Kant. Prerequisites: Two philosophy courses and Junior standing.

3360. PHILOSOPHY OF RELIGION

An examination of fundamental ideas and concepts of Christian theology, the challenge of modern philosophy and scientific thought, and the response of Christian thought. Prerequisite: Junior standing or consent of instructor. See RELI 3360

4341. TWENTIETH CENTURY PHILOSOPHY

A survey of the major philosophical trends of the twentieth century; emphasis on pragmatism, existentialism, logical positivism, and linguistic analysis. Prerequisites: Two upper-level philosophy courses and Senior standing.

4380. DIRECTED STUDY IN PHILOSOPHY

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate

ate dean. Normally students enrolling will have upper-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic.

4395. PROBLEMS IN PHILOSOPHY

A systematic study of the major, perennial philosophical issues and their treatment by historically mainstream philosophers from ancient times to the present decade. Topics include: The Problem of Universals, The Problem of Induction, The Nature of Values, The Mind-Body Problem, A Priori Knowledge, Truth, and Realism/Antirealism. Will only be offered as an alternate to the senior thesis. Prerequisite: Senior standing.

4399. SENIOR PROJECT IN PHILOSOPHY

Independent capstone research investigation culminating in a senior thesis or comparable senior project.

PHYSICS (PHYS)

1300. INTRODUCTION TO ASTRONOMY

A descriptive course in the development of astronomy and its methods, the motions, laws and evolution of the solar system. Topics include the general properties and types of stars and other stellar objects, evolution and cosmology. Required evening viewing sessions are held, depending on weather conditions. (A non-laboratory based science course.)

1401. (1401) COLLEGE PHYSICS I

A quantitative introduction to modern physics. Topics include the laws of motion and heat and wave phenomena among others. Partial fulfillment of physics requirement for engineering, physics, medicine, and other science and technology related degree programs. Prerequisite: credit for or concurrent enrollment in MATH 2422 (3-2).

1402. (1402) COLLEGE PHYSICS II

A continuation of PHYS 1401. Topics include electricity and magnetism, optics, and modern physics. Completes the science requirement for science and technology related degree programs. Prerequisites: PHYS 1401 and credit for or concurrent enrollment in MATH 2423 (3-2).

POLITICAL SCIENCE (POLS)

Schreiner University offers courses leading to the Bachelor of Arts degree with a major in Political Science in three tracks of study: American government or international relations or pre-law. The program is designed to instill in students a broad outlook in either area that is fundamentally sound. Such a curriculum is necessary for an individual to be a competent, educated, and productive citizen in today's global society.

This is a multidisciplinary major coupled with a strong liberal arts core. It is designed primarily for students who plan to embark in careers in government service, academia, non-profit organization administration, and/or attend law school.

A major in Political Science consists of POLS 2301 and collateral courses: ENGL 3303, ECON 2301, 2302, PHIL 2320, PSYC 3360 plus:

American Government Track: POLS 2302, 3305, 3310, 3320, 3330, 3340, 4397 and six hours from BSAD 3310, 3311, POLS 3350, 3360, 3370, 4370 or 4380.

International Relations Track: POLS 2302, 2303, 3310, 3320, 3381, 3382, 3383, 3384, 3385, 4399 plus 4 semesters of a foreign language.

Pre-Law Track: BSAD 3310, 3311, POLS 3320, 3330, 3340, 3352, 4399 and 6 hours from POLS 3305, 3310, 3351, 4370 or 4380.

Students wishing to earn a minor in Political Science must take POLS 2301, 2302 and complete an additional 12 advanced semester hours from the following: POLS 3305, 3310, 3320, 3330, 3340, 3350, 3360, 3370, or 4370.

2301. AMERICAN GOVERNMENT (NATIONAL AND TEXAS) ORGANIZATION

Constitutions and organizations of the United States and Texas governments are the focus of this course. The examination includes both the U.S. and Texas Constitutions, understanding the functions of the executive, legislative, and judicial branches as well as the bureaucratic process. Additional topics scrutinized are voting behavior, interest group influence and activities, and other aspects of the body politic in America and Texas.

2302. AMERICAN PUBLIC POLICY

The policy-making process, agencies and administration of public policy in the government of the United States, the states in general, Texas in particular are the focus of this course. The policy areas investigated in this course include, civil rights, criminal justice, taxation, defense, health and welfare, education, environment, economics, trade and immigration. Prerequisite: POLS 2301 or consent of instructor.

2303. INTRODUCTION TO INTERNATIONAL RELATIONS

A survey of international variations in culture, politics, economics, and physical geography and how these variations affect interaction among the peoples of the global community.

3305. UNITED STATES CONSTITUTIONAL HISTORY

This course is a constitutional study of the United States with emphasis on those Supreme Court decisions that have altered the social, economic, and political institutions of American society from 1781 to the present. Prerequisite: Junior standing or consent of instructor. See HIST 3305

3310. THE AMERICAN PRESIDENCY

The American presidency is a most profound institution. In this course the constitutional basis, structure, powers, functions, and responsibilities are examined. Additionally, the various management styles and leadership aspects exercised by presidents are explored. Prerequisites: POLS 2301, 2302 or consent of instructor.

3320. CONGRESS AND THE LEGISLATIVE PROCESS

A systematic study of the factors involved in the framing and enactment of statutory law and activities of the Congress of the United States are investigated. Special attention is given to the internal workings of committees and subcommittees of both houses of Congress. Prerequisites: POLS 2301, 2302 or consent of instructor.

3330. THE JUDICIAL PROCESS

This introduction to American law and legal procedure inculcates a basic understanding of the organization of the legal profession; state and federal judicial processes; instruments of judicial power; reasoning, behavior, and impact of judicial activity. Prerequisites: POLS 2301, 2302 or consent of instructor.

3340. THE ADMINISTRATIVE PROCESS

This course serves as a prologue to the field of public administration. The principles of administrative organization; distribution of administrative functions together with the structure of governmental change as public policy is carried out are the areas of concentration in this course. Prerequisites: POLS 2301, 2302 or consent of instructor.

3350. INTRODUCTION TO POLITICAL SCIENCE, RESEARCH AND WRITING

In this module a review in the methods of and approaches to the study of politics and their underlying assumptions as they apply to the major concepts of the discipline are explored. The use of quantitative analysis research and writing techniques are examined. Prerequisites: POLS 2301 and MATH 1310, or consent of instructor.

3351. SOCIAL AND POLITICAL PHILOSOPHY

Philosophical theories about how society and its institutions should be arranged. A study of Hobbes, Locke, Rousseau, Marx, and contemporary writers. Topics include democracy, communism, fascism, anarchism, and utopianism. Prerequisites: Junior standing and either HIST 1351, one philosophy course, or consent of instructor.

3352. PHILOSOPHY OF LAW

A systematic examination of the fundamental ideas of law and jurisprudence, including the concepts of rights, responsibility, and punishment. Consideration of such topics as natural law and morality will be included. Prerequisites: Junior standing and one philosophy course, or consent of instructor.

3360. STATE AND LOCAL GOVERNMENT

Cities, counties, and special districts are studied in terms of organization, recruitment, and services such as policy, planning, and health; fiscal problems and their impact on citizens. Prerequisites: POLS 2301, 2302 or consent of instructor.

3370. POLITICS AND THE MEDIA

The role of the media in the political process is examined. Special emphasis will be placed on the history of and techniques employed by the media in public policy areas as well as the election process. Prerequisites: POLS 2301, 2302 or consent of instructor.

3381. GLOBALIZATION THEORIES, ISSUES AND TRENDS

This is a survey of current historical, social, cultural, economic and political issues and trends affecting the global community. Prerequisite: POLS 2303 or consent of instructor. See BSAD 3381.

3382. COMPARATIVE INTERNATIONAL POLITICAL SYSTEM

An overview of the world's political cultures, systems, behavior and institutions. The objective is to develop a background with which to assess and explain differences in political culture, governmental structures and political behavior, and to appreciate the effects these factors have on international relations. Prerequisite: POLS 2303 or consent of instructor.

3383. INTERNATIONAL POLITICAL ECONOMY

This is a study of the interrelationship between political and economic factors in international relations with a focus on theoretical perspectives on the relationship between international economics and politics, trade policies, trends in integration of political and economic systems, the role of multinational corporations and economic organizations in the modern world. Prerequisite: POLS 2303 or consent of instructor. See BSAD 3383.

3384. REGIONAL STUDY

This is an interdisciplinary survey of a world region focusing on the geographic, historical, cultural, economic, and political factors most affecting the role of this region within the international community today. Regions such as Latin America, Europe, The Middle East, and Asia will be offered on a rotating schedule. May be repeated when region changes. Prerequisite: POLS 2303 or consent of instructor. See BSAD 3384.

3385. THE AMERICAN FOREIGN POLICY PROCESS

This is the study of the foreign policy making process and factors influencing U.S. international political and economic behavior since 1945. Special emphasis will include foreign policy issues affecting the United States political and economic interests in the coming decade. Prerequisite: POLS 2303 or consent of instructor. See BSAD 3385.

4370. TOPICS IN POLITICAL SCIENCE

Selected topics in the field of political science. Topics will vary; course may be repeated when topics vary. Prerequisite: POLS 2301

4380. DIRECTED STUDY IN POLITICAL SCIENCE

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate dean. Normally, students enrolling will have at least a junior-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic.

4397. SENIOR SEMINAR IN POLITICAL SCIENCE

This course is a capstone experience in the government track for students seeking a major or minor in political science. It examines areas of political action in which the student is challenged to exhibit significant knowledge and understanding from his previous political science coursework. Prerequisites: Students who completed 15 hours in the POLS government track are eligible to enroll with the consent of instructor. Students who have completed 24-27 hours in POLS must complete this course to be eligible for a degree in Political Science.

4399. SENIOR PROJECT IN POLITICAL SCIENCE

Independent capstone research investigation culminating in a senior thesis or comparable senior project.

PSYCHOLOGY (PSYC)

Schreiner University offers courses leading to the Bachelor of Arts degree with a major in Psychology. A major in Psychology can help prepare students for careers in a variety of fields including social services (e.g. mental health counselor, child care worker) and business (e.g. personnel, sales, marketing, and advertising). In addition, this program prepares students for graduate study in an equally broad number of fields including psychology (with specialties in clinical, counseling, industrial, social, cognitive), education (with specialties in counseling or administration), law, medicine, and business, as well as other professions in which a knowledge of the principles of behavior is essential.

The major in Psychology consists of 27 advanced Psychology hours, including:

- at least 3 semester hours from PSYC 3303, 3304
- at least 3 semester hours from PSYC 3310, 4330, 4340
- at least 3 semester hours from PSYC 3305, 3306, 3330, 4307
- and PSYC 3360, PSYC 3361, and either PSYC 4397 or 4399.

1300. PERSONAL ADJUSTMENT

A course which emphasizes applications of psychology to personal development and improvement of social relationships. Topics may include study of self-concept and self esteem, values, sex roles, stress and anxiety, friendship and intimate relationships, failures of adjustment, treatment models, social problems, and techniques for personal fulfillment and growth.

1301. (2301) INTRODUCTION TO PSYCHOLOGY

The purpose of this course is to familiarize the student with the basic principles that shape how people think, feel, and behave. Topics of study will include the biology of the brain and nervous system, sensation and perception, consciousness, learning and memory, motivation and emotion, and personality. In addition, the student will learn how thoughts, feelings and actions are affected by social situations, and about selected psychological disorders and the therapy methods that have been developed to treat them.

2300. LIFE-SPAN DEVELOPMENT

An introductory survey of developmental psychology from infancy to later aging. Topics include cognitive/intellectual development, social development, personality/emotional development, and effects of parenting, social roles, and biological changes. Students will have the opportunity to apply concepts and theories to their personal experiences. Prerequisite: PSYC 1301 recommended, but not required.

2370. TOPICS IN PSYCHOLOGY

The study of a particular topic in psychology. May be repeated when topics vary.

3303. DEVELOPMENTAL PSYCHOLOGY: CHILDHOOD AND ADOLESCENCE

This course covers the significant aspects of human development from conception through adolescence. Topics include the influences upon development of such things as social and emotional growth, personality, intellectual capacity, and the acquisition and usage of language. Also stressed is the relevance of these topics to parent effectiveness. Prerequisites: PSYC 1301 and Junior standing, or consent of instructor.

3304. DEVELOPMENTAL PSYCHOLOGY: ADULTHOOD AND AGING

This course focuses on human development from young adulthood through old age. Main emphases are on the social and emotional changes associated with various stages of adult life. The crises typically encountered by individuals in their twenties, thirties, and forties, etc. are studied, including shifts in self-concept, sexual desires, attitudes toward life, conceptions of death, etc. Development during the period of old age is also covered. Prerequisites: PSYC 1301 and Junior standing, or consent of instructor.

3305. ABNORMAL PSYCHOLOGY

This course focuses on the nature of abnormality, theoretical models of the causes of abnormal behavior, major diagnostic categories (such as depression, schizophrenia and personality disorders), and treatment models. Prerequisites: PSYC 1301 and Junior standing or consent of instructor.

3306. SOCIAL PSYCHOLOGY

This course focuses on social factors that influence individual behavior, thoughts, and feelings. Topics covered include attitude formation and change, altruism, aggression, attraction, conformity, interpersonal relationships, and group processes. Prerequisites: PSYC 1301 and Junior standing, or consent of instructor.

3310. SENSATION AND PERCEPTION

This course constitutes an examination of how the human visual and auditory senses operate. The

connection between nervous system activity in the sensory systems and perceptual experience will also be examined. The course includes descriptions of how perceptual data are collected ranging from the electrical firing of a single neuron to an individual's description of their experiences. In addition, analyses of the many theoretical models that have been developed to give meaning to this data will be provided. Prerequisites: PSYC 1301 and junior standing.

3320. PSYCHOLOGY OF MOTIVATION

This course examines many different approaches to the study of factors which activate, direct, maintain, and terminate behavior patterns in both animals and humans. Covers a range of theoretical perspectives including biological, behavior, and cognitive interpretations. Prerequisites: PSYC 1301 and junior standing.

3330. PSYCHOLOGY OF PERSONALITY: Research Approaches

Examines major trait approaches to personality and their correlates, including authoritarianism, anxiety, achievement, locus of control, introversion-extraversion, dependency and approval, etc. Methods of scale construction and the relationship of traits to situations will also be examined. Students will be able to assess their own dimensions in many cases, and both clinical and workplace applications will be explored. Prerequisite: PSYC 1301 and junior standing.

3350. ORGANIZATIONAL BEHAVIOR

This course focuses on providing an integrated social scientific approach to relationships between the individual and the organization, and on administrative problems. Topics include performance appraisal, leadership, motivation, interpersonal relationships, decision-making, job satisfaction, and change, among others. Prerequisites: BSAD 1301 or PSYC 1301 or consent of instructor and junior standing. See BSAD 3350.

3360. RESEARCH METHODS I

This course is the first of a two-part sequence. The student will be introduced to data collection and analysis techniques for the behavioral sciences with an emphasis on the use of descriptive statistics to summarize collected data using tables and graphs. Major topics include probability, the normal distribution, and an introduction to hypothesis testing. Student will also be introduced to the critical steps of the scientific method including theory development, research design decisions, and validity and reliability concerns. Each student will be expected to design and run an experimental simulation and conduct an in-depth literature review in the topic area of that simulation. Required for psychology majors. Prerequisites: PSYC 1301 and junior standing.

3361. RESEARCH METHODS II

This course is the second of a two-part sequence. The student will learn to use parametric and non-parametric inferential statistical analyses. In addition, instruction in professional research report writing will be provided. Methodological design and data interpretation issues first presented in Research Methods I will be expanded and students will be expected to apply their accumulating research skills in the form of a completed formal report on the simulated experiment started in the first part of the course sequence. Required for psychology majors. Prerequisite: PSYC 3360 and junior standing.

4307. THEORIES OF PERSONALITY

An upper division course comparing and contrasting the major historical approaches to personality, including Psychoanalytic, Humanistic, and Learning derived theories. These theories define the context for modern explanations of human personality, behavior, and abnormal psychology. Prerequisites: PSYC 1301 and Junior standing.

4310. ENVIRONMENTAL PSYCHOLOGY

Study of transactions between individuals and their physical settings. Includes topics such as environ-

mental perception/cognition, personality, personal space, territoriality, crowding, and privacy. Applications to better design of residences, communities, schools, workplaces and/or natural environments are encouraged in student reports and projects. Prerequisites: PSYC 1301 and junior standing.

4330. COGNITIVE PSYCHOLOGY

This course surveys various topics in areas of perception, memory, and thinking. Such topics include pattern perception, mental imagery, short and long-term memory systems, visual and verbal thinking, and language comprehension. Prerequisites: PSYC 1301 and Junior standing, or consent of instructor.

4340. BIOLOGICAL BASIS OF BEHAVIOR

This course examines the relationship of the human body's neurological and hormonal systems to behavior and experience. A major emphasis is placed on brain structures and functions and a broad spectrum of psychological phenomena including learning, memory, perception, communication, appetitive and survival behaviors, and psychological disorders. In addition, a survey of behavioral genetics research across content areas in psychology will be covered. Prerequisite: 15 completed hours in psychology or senior standing.

4360. HISTORY AND SYSTEMS OF PSYCHOLOGY

This course examines the development of psychology as a science. Various systemic approaches to understanding human behavior are studied and the impact of prominent theorists evaluated. Prerequisite: PSYC 1301 and Junior standing, or consent of instructor.

4370. TOPICS IN PSYCHOLOGY

Specific topics within an identified area of psychology selected by the instructor. Topics will vary, and the course may be repeated for credit with a change in topic. Prerequisites: PSYC 1301 and Junior standing, or consent of instructor.

4380. DIRECTED STUDY IN PSYCHOLOGY

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate dean. Normally, students enrolling will have upper-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic.

4397. SENIOR SEMINAR IN PSYCHOLOGY

This is a required course for graduating psychology majors to practice research, writing, discussion, and presentation skills. Content areas of study include employment expectations for B.A. graduates, graduate school options and preparation, rules of APA style, and a selection of classic research studies in the history of psychology. Prerequisites: Senior standing, psychology major expected to graduate at the end of the current or subsequent semester.

4399. SENIOR PROJECT IN PSYCHOLOGY

Independent capstone research investigation culminating in a senior thesis or comparable senior project.

READING (RDNG)

3301. DIAGNOSIS AND REMEDIATION

This course requires a field practicum at a local elementary school campus that involves the supervised practical application of previously studied principles, policies, and practices related primarily to the diagnosis and remediation of reading needs for students in elementary grades. This course

includes assessing reading progress, testing and evaluation, and special reading populations. Required for elementary and all-level teacher certification. Prerequisites: Junior standing and admission to Teacher Education Program.

3302. CONTENT AREA READING

This course includes strategies for teaching reading in the content areas, teaching vocabulary, word identification and comprehension. Considers locating resources, note-taking skills, test-taking, reading rate and flexibility, control strategies, and higher order cognitive skills. Required for all teacher certification programs. This course requires 10 hours of classroom observation. Prerequisites: Junior standing and admission to Teacher Education Program.

3303. READING AND LANGUAGE ARTS

This course includes oral language, foundations of reading, word analysis and reading fluency, reading comprehension, written language and communication, study and inquiry skills, and assessment strategies. The benefits of technology for teaching writing and writing for publication will be supported. Strategies for spelling instruction, grammar, writing development, vocabulary and spoken language skills will be addressed. State curriculum in reading and language arts TEKS for grades EC-8 will be used. This course requires 10 hours of classroom observation. Prerequisites: Junior standing and admission to Teacher Education Program.

3304. EMERGENT READING AND LITERACY (EC-8)

This course includes information and strategies related to oral language, phonemic awareness, literacy development, reading fluency, written communication, and assessment strategies for young children. Students will examine the development of early reading behaviors and the importance of literacy-rich environments. A major focus will be on key concepts of emergent literacy, establish print-rich classrooms and assisting children and parents in providing a positive environment for literacy. Prerequisites: Junior standing and admission to Teacher Education Program.

3305. FOUNDATION OF READING METHODS

This course is designed to introduce the reading process to teacher education students. An emphasis is placed on beginning reading skills development, including phonics and phonemic awareness instruction with a focus on the stages of learning to read and the reading process. Students will learn about theories of reading education in relation to the various reading programs offered in schools, instructional methods, and teaching methods. The reading scope and sequence and understanding of the Texas Essential Knowledge and Skills will be addressed.

4301. CLINICAL PRACTICES IN TEACHING READING (EC-8)

This course is designed to help teacher education students acquire the basic skills of teaching reading from pre-kindergarten through the intermediate grades. An emphasis will be placed on the scope and sequence of skills needed for independent reading. Students will prepare lesson plans and activities with effective approaches for the learner's understanding of reading objectives. Effective reading strategies and other best practices will be used for today's diverse learners. Special focus will be given to learners with exceptionalities, including ESL (English as a second language) learners. The Texas Essential Knowledge and Skills and the TExES competencies for state certification will be implemented. Field practicum is required. Prerequisites: Admission to Teacher Education Program and senior status.

RELIGION (RELI)

Schreiner University offers courses leading to the degree of Bachelor of Arts with a major in Religion.

The study of religion might be justified solely on the argument that one cannot understand our

own culture or that of others without coming to terms with religion's aspirations, symbols, practices and values.

The study of religion at Schreiner University, however, seeks to move beyond the mere description of religion's cultural significance by exploring the way the Christian faith narrates the meaning and purpose of human life in God's redemptive activity in Jesus Christ. Informed by the Reformed tradition's conviction that faith is inseparable from life, the study of religion at Schreiner will endeavor to challenge students to integrate what is learned academically with what is lived out in faith.

At Schreiner, the study of religion is a "humanity," and therefore understands itself to be open to and the beneficiary of other realms of knowledge described in the curriculum. It is expected that students who major in religion will take advantage of the 34 elective hours to explore a broad spectrum of courses that will enrich their lives and prepare them for occupations and vocations in a wide variety of human endeavors.

In order to nurture Christian discipleship among Schreiner University students, to respond to students' needs, to provide "whole-person" educational opportunities, and to encourage service to the Church, the Christian Vocations Intern Program (CVIP) has implemented an experiential, field-oriented, learning and serving program under the supervision of trained mentors and teachers. The CVIP is dedicated to providing the opportunity for students to integrate their faith and academic learning by using both in practical settings to prepare themselves to be Christian leaders throughout their lives and to consider the possibility of a call to service in the church.

Students must take a minimum of 12 semester hours in the field of religion including Old and New Testament. In addition, a minimum of 6 semester hours in either education, psychology, or business administration are required in order to enroll in the internship course during the senior year. Students will be given individualized assistance in planning their course options during their time at Schreiner University. Extra-curricular opportunities will be offered to enhance the students' study and growth towards a vocational choice.

Students who plan to major in Religion must schedule RELI 1303, and 1304, and PHIL 1301 into their program during their first two years, along with HIST 1350 and 1351.

The major in Religion requires 24 semester hours of advanced work, including RELI 4395, 4398 or 4399. Six semester hours of the 24 may consist of advanced philosophy courses.

1303. SURVEY OF THE OLD TESTAMENT

A study of the history, literature, and teachings of the Old Testament.

1304. SURVEY OF THE NEW TESTAMENT

A study of the history, literature, and teachings of the New Testament.

1320. SURVEY OF WORLD RELIGIONS

An examination of the nature of the religious experience and introduction to the origin, development, history, beliefs and practices of the world's major religions.

1322. HISTORY OF THE CHRISTIAN CHURCH

An introduction to the growth and development of the Christian Church's doctrines, structures, and interaction with its cultural setting from New Testament times to the dawn of the 16th century Reformation.

2311. DEVELOPMENT OF CHRISTIAN ETHICS

An introduction to the content and methods of Christian ethical thought as it has developed over the centuries, and its application to contemporary issues of loyalty, integrity, and responsibility in the ever changing and more complex world of business, politics, and social institutions.

2370. TOPICS IN RELIGION

An introduction to particular topics in religion. May be repeated when topics vary.

3303. HISTORY AND PRACTICE OF SACRED MUSIC

A study of the development of the various service formats of the Christian church, the types of music developed for them and its relationship to secular music, and the practical use of different styles of music in worship today. Prerequisite: 6 hours of music or consent of instructor. See MUSC 3303.

3321. THE REFORMATION ERA

A comprehensive treatment of the period from 1500 through 1650, during which time the unifying umbrella of Christianity was shattered. Topics include a causal analysis of the Reformation, Lutheranism, the spread of Protestantism and the Catholic revival, and religious consequences and conflicts. See HIST 3321.

3322. CHRISTIAN THEOLOGY

An exploration of classical and contemporary Christian theology and the challenging contributions of liberation theological perspectives to the life and thought of Christians living in a pluralistic world.

3360. PHILOSOPHY OF RELIGION

An examination of fundamental ideas and concepts of Christian theology, the challenge of modern philosophy and scientific thought, and the response of Christian thought. Prerequisite: Junior standing or consent of instructor. See PHIL 3360.

4363. RELIGIOUS MOTIFS IN LITERATURE

This course includes readings of selected contemporary novels that exhibit traditionally religious themes in the context of modern secularism. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing. See ENGL 4363.

4370. TOPICS IN RELIGION

In-depth study of particular topics in religion. May be repeated when topics vary.

4380. DIRECTED STUDY IN RELIGION

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate dean. Normally students enrolling will have upper-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic.

4395. PROBLEMS IN THEOLOGY

A systematic study of Biblical and/or theological issues and their treatment by major scholars in the respective fields of study. Topics include: The nature of Revelation: The relation of Faith and Culture; Free Will and Determinism; Theodicy; The Christian Life as Sanctification; Eschatology and Christian Ethics; The Church and Contemporary Cosmology. Will only be offered as an alternate to the Senior Thesis. Prerequisite: Senior standing.

4398. CHRISTIAN VOCATION INTERNSHIP

Supervised field service which provides the opportunity for the student to apply prior learning to practical experience in a Christian work setting. Prerequisites: A minimum of 12 hours in religion including Old and New Testament, minimum of 6 hours in a related field such as Education, Psychology, Business Administration. (Pre-planning needs to be done with the director of the Christian Vocation Internship Program).

4399. SENIOR PROJECT IN RELIGION

Independent capstone research investigation culminating in a senior thesis or comparable senior project.

SOCIOLOGY (SOCI)

1301. (1301) INTRODUCTION TO THE STUDY OF SOCIETY

An introduction to the study of social structure, groups, institutions, socialization, cultural differences and problems. The course stresses the sociological explanations which underlie patterns of behavior such as the myth of the "melting pot," racial and sexist discrimination, advertising and media trends, family values, the growth of an American underclass, and deviant behavior.

2302. (2301) MARRIAGE AND FAMILY

A study of social systems and psychological factors affecting the pivotal institution of marriage in the late 20th century. The systems theory of family therapy will be utilized to illuminate how family structure and reciprocal processes create the family roles. The course will consider factors which contribute to a rewarding married life.

2303. INTRODUCTION TO SOCIAL WORK

Development of the philosophy and practice of social work in the United States. A survey of the various fields and techniques of social work with special attention given to requirements for graduate training in the professional schools. Prerequisite: SOCI 1301.

SPANISH (SPAN)

Schreiner University offers courses leading to a minor in Spanish. The program is designed to give students an overview of Peninsular, Latin American and Hispanic American perspectives. As the literatures of these areas are examined, histories and cultures also will be examined. In order to acquire a minor in Spanish, students must take SPAN 2303 and 2304 and must complete an additional 12 advanced semester hours from the following: SPAN 3301, 3302, 3303, 3304, and 3305.

Students with a placement score at the level of SPAN 1402 or above may, upon written request to the Registrar, be given credit for required courses at the appropriate level.

1401. ELEMENTARY SPANISH I

An introductory course which focuses upon basic reading, writing, listening and speaking of Spanish. Significant aspects of Spanish-language cultures are also addressed. This course is the first in a sequence of introductory Spanish courses.

1402. ELEMENTARY SPANISH II

This course, a continuation of SPAN 1401, expands reading, writing, listening and speaking skills as

it expands knowledge of Spanish-language cultural traits. Prerequisite: SPAN 1401 or appropriate placement test score.

2303. (2311) INTERMEDIATE SPANISH I

This course provides a comprehensive review of major grammatical structures and vocabulary and expands upon them via cultural and contemporary readings. Course conducted primarily in Spanish. Prerequisite: SPAN 1402 or appropriate placement test score.

2304. (2312) INTERMEDIATE SPANISH II

This course expands upon information presented in SPAN 2303. Course conducted primarily in Spanish. Prerequisite: SPAN 2303 or appropriate placement test score.

3301. A SURVEY OF LATIN-AMERICAN LITERATURE TO THE 20TH CENTURY

An introductory course of selected readings in Spanish that includes poetry and prose of some notable writers of Mexico, Latin America, and the Caribbean. The content will incorporate literature that is significant in reflecting major historical and literary periods from the Spanish invasion and Colonialism through the emergence of contemporary and modernistic production. The lectures will be conducted primarily in Spanish. Prerequisite: SPAN 2304.

3302. A SURVEY OF PENINSULAR LITERATURE TO THE 20TH CENTURY

An introductory course of selected Spanish readings, both poetry and prose, that embrace and reflect the major historical and literary periods of Spain. Through lecture and cursory writings, students will be exposed to important works that incorporate the Spanish Middle Ages, Renaissance, Romanticism and Realism, as well as the historical implications of such writings. Lectures will primarily be conducted in Spanish. Prerequisite: SPAN 2304.

3303. A SURVEY OF LATIN-AMERICAN LITERATURE OF THE 20TH CENTURY

This course concentrates heavily on contemporary Hispanic-American writings that reflect literary innovations that bring Mexican and Latin-American writers to the forefront of international creative thought and literary production. Historical impetus with respect to political and social implications will be discussed. Such writers as Neruda, Del Castro, Borges, Cortazar, Fuentes, Vargas-Llosa and others will be studied. The course will primarily be conducted in Spanish. Prerequisite: SPAN 2304.

3304. A SURVEY OF PENINSULAR LITERATURE OF THE 20TH CENTURY

An introduction to selected writings that reflect contemporary Spanish thought and recent history that have given rise to current literary trends. Such movements as Modernism, and Avant Garde will be discussed as well as events, such as the Spanish Civil War, will be discussed in relation to literary implications. Notable Spanish writers and poets such as Lorca, Valle-Inclan, Unamuno and Machado as well as Cela, Matute, Calvo Sotelo and others will be reviewed. Lectures will primarily be conducted in Spanish. Prerequisite: SPAN 2304.

3305. CURRENT HISPANIC AMERICAN THOUGHT AND LITERATURE

This course is devoted primarily to the writings of Hispanic Americans from the U.S. It will examine historical and current events that yield unique literature reflecting issues of cultural identity, feminism, acculturation, assimilation and other political and social implications that make this literature unique in thought and rich in heritage. Historically, the course includes the "Chicano Movement" of the '60s and its effect through contemporary innovations in literature. The course is conducted in both English and Spanish; the readings offer a combination of both. Linguistic comparisons and contrast in the target language will be noticed and addressed as well. Prerequisite: SPAN 2304.

4370. TOPICS IN SPANISH

Classes on subjects not otherwise offered. May be repeated when topics vary. Prerequisite: SPAN 2304.

4380. DIRECTED STUDY IN SPANISH

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the dean. Normally, students enrolling will have upper-division standing, a 2.0 GPA, and have completed basic discipline courses. May be repeated as topics vary.

4399. SENIOR PROJECT IN SPANISH

Independent capstone research investigation culminating in a senior thesis or comparable senior project.

THEATRE (THRE)

Schreiner offers courses leading to a Bachelor of Arts degree with a major in Theatre. The Theatre program supports the standards of liberal arts education expressed in the philosophy of the University. Both lower and upper level courses in theatre prepare students for careers in professional, educational, and community theatre programs, as well as further and more specific study in graduate theatre programs. Individualized instruction is emphasized in certain upper level theatre courses through internship opportunities, as well as performance responsibilities. This program emphasizes a strong, general foundation in theatre basics. Majors may pursue either a technical or performance theatre focus.

Collateral courses include: ART 2340, 2341, Applied Music, MUSC 1303, THRE 1101, 1103, 1301, 1302, 2301, 2302.

The major consists of 24 advanced hours in theatre: THRE 3301, 3302, 3305, 4332, 4333, 4340, 4350 or 4351, and 4398.

1101. THEATRE REHEARSAL AND PERFORMANCE

Laboratory in acting, stage management, design, construction and handling of scenery, lighting, sound, properties, costume and make-up. May be repeated for credit.

1103. MOVEMENT FOR THE THEATRE

An introduction to the basics of stage movement with exercises in stage movement styles (classic Greek and Roman, Shakespearean, Modern and Avant-Garde). Exercises in body alignment (discussion of movement problems and injuries) and exercises in relaxation technique. Definition and history of one or more of the following: Alexander Technique, Laban, Feldenkrais, Yoga and/or Reiki. May be repeated once.

1301. INTRODUCTION TO THE THEATRE I

A non-major study of the basic elements of theatre. A basic survey of theatre history in the Western world and play analysis are emphasized.

1302. INTRODUCTION TO THE THEATRE II

A non-major introduction to basic scene design, lighting design, and stage directing are emphasized. Floor plans, lighting plots, and short, student-directed scenes are required.

2301. ACTING I

Basic acting with emphasis on play structure, character development, and elementary problems of ensemble playing. Memorization and participation in dramatic presentations are required. (2-1).

2302. ACTING II

Theory and practice of acting. Formal and informal performance of scenes throughout the semester. Prerequisite: THRE 2301 or consent of instructor.

3301. THEATRE HISTORY I

A study of theatre history which traces the path of theatre from its beginnings through the Renaissance. Emphasis is on the playwrighting, acting and directing styles, scenic innovations and theatre architecture of various periods. Prerequisite: THRE 1301 or HIST 1350 or HIST 1351.

3302. THEATRE HISTORY II

A historical survey of major trends of world theatre and drama. Emphasis is on theatre of Europe and the United States, however, the eastern theatre is covered also. This course covers dramatic criticism, theatre trends, actors and acting styles, the role of the director, and scenic innovations from the Renaissance to the contemporary theatre of the late 20th century. Prerequisites: THRE 1301 or HIST 1350 or HIST 1351.

3305. CREATIVE DRAMA FOR YOUNG AUDIENCES

Theory and practice of creative drama for young audiences including story dramatization, story-telling, pantomime, role playing and theatre games. Prerequisite: THRE 1301 or Junior standing.

4332. STUDIES IN SHAKESPEARE

This course emphasizes reading and in-depth analysis of six major plays, examining the rich critical background of Shakespearean studies. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing. See ENGL 4332.

4333. PLAYWRIGHTING

The study and practice of writing plays of various lengths. Use of dialogue, movement and building of ideas into dramatic situations is emphasized. Prerequisites: ENGL 1302 or THRE 1301, 2301 and Junior standing.

4340. DRAMATIC LITERATURE

This course includes readings in American, British, and Continental literature, with emphasis on the development of ideas, themes, and motifs. Prerequisites: ENGL 1302, and either 2340 or 2341 and junior standing. See ENGL 4340.

4350. ADVANCED STUDIES IN TECHNICAL THEATRE

An in-depth study of different aspects of technical theatre including; stage design, stage lighting, costume history and design, and/or stage management. This course is designed for the upper level theatre major who has special interest in technical aspects of theatre and theatre design. Prerequisites: THRE 1302, 3301, 3302, senior standing or consent of the theatre director.

4351. ADVANCED STUDIES IN THEATRE PERFORMANCE

An advanced study into performance aspects of theatre including; advanced acting and acting styles, stage directing, play analysis, dramatic criticism and scoring. Prerequisites: THRE 1301, 2301, 2302, 3301, 3302, senior standing or consent of the theatre director.

4370. TOPICS IN THEATRE

This course focuses on theatrical styles and genre; dramatic theory and criticism; and historical perspectives on world theatre practices. Topics for study include: Musical Theatre, Stage Directing: Techniques and Theories, and Post Modern Theatre: The Avant Garde from Absurdism to Performance Art. Prerequisites: THRE 2301, 3301, 3302, or consent of instructor.

4380. DIRECTED STUDY IN THEATRE

Subjects not offered as regular courses may be investigated by directed study pursuant to a plan proposed by the student and approved before registration by the supervising instructor and the appropriate division chair. Normally students enrolling will have upper-level status, a 2.0 GPA, and completed basic discipline courses. May be repeated with a change in topic.

4398. INTERNSHIP IN THEATRE

Students will serve internship hours at the Schreiner University Theatre or other local theatres. The students will be active in a variety of technical theatre activities, which may include; set painting, construction, lighting, stage managing, sound, costumes, and assistant to the director. Prerequisite: Senior standing or consent of instructor.

VOCATIONAL NURSING (VONR)

Class and/or clinical hours may be altered to enhance the learning experience of the student according to the availability within the medical community. Includes 20 hours of comprehensive review. (1500 hour program)

1001. PERSONAL AND VOCATIONAL RELATIONSHIPS

An introduction to vocational nursing, includes information on vocational organizations, licensure, and publications. Guides the student in the development of a philosophy of nursing. Provides an overview of legal, ethical and cultural issues confronting nurses today. 30 hrs.

1003. FUNDAMENTALS OF VOCATIONAL NURSING

Introduces a wide variety of nursing skills from the simple to the more complex. Emphasis on the scientific principles and concepts as a basis for the development of competence in the performance of nursing skills. Includes material related to disease control and prevention. The nursing process is the foundation for classroom and clinical activities. Basic computer skills will be developed and applied to the nursing profession. 159 hrs.

1004. PHARMACOLOGY

Introduces basic drug classifications and examines drug side effects and nursing implications of specific drug therapy. 64 hrs.

1005. NUTRITION

Introduces principles of good nutrition as related to health in all age groups. The importance of good nutrition, essential nutrients, and diet planning are emphasized. Examines the use of various hospital diets in the treatment regimen of the patient. 25 hrs.

1006. BODY STRUCTURE AND FUNCTION

Provides the student information regarding the normal structure and function of the human body from the cellular level to that of body systems. Provides a foundation for Nursing Skills, Medical-Surgical Nursing and Maternal-Child Nursing. 65 hrs.

1007. NORMAL GROWTH AND DEVELOPMENT

Introduces the student to aspects of growth and development from infancy to the elderly. Emphasis is placed on using principles of normal growth and development to enhance nursing care for the patient as a whole. 16 hrs.

2007. GERIATRIC NURSING

Introduces the student to theories of the aging process. Examines special care needs of the geriatric patient. Emphasis on the nursing process in understanding the pathological variations of aging. 35 hrs.

2008. MENTAL HEALTH AND MENTAL ILLNESS

Basic principles of positive mental health and psychiatric nursing are examined. Topics include: personality development, human emotions and behaviors, defense mechanisms, stress and the coping process, and the history of mental illness. Nursing care of the patient with mental illness will include discussion of various treatment modalities. 30 hrs.

2009. MEDICAL-SURGICAL NURSING I

Builds on knowledge of the healthy human body. Topics help to achieve an understanding of the disease processes encountered in nursing situations with emphasis on the problem solving approach using the nursing process. 30 hrs.

2011. MATERNAL-CHILD HEALTH NURSING

Focus on normal obstetrics from pregnancy through labor and delivery to the post partum period. Examines complications common to the obstetric patient and the impact of various disease processes on the child-bearing process. Emphasis is on the physical, emotional, and spiritual needs of the patient. Care of the normal newborn is examined as well as normal characteristics of the newborn. 45 hrs.

2012. PEDIATRIC NURSING

Provides the student with an understanding of how illness and hospitalization affect the child and his family. Emphasis is placed on common pediatric diseases and the nursing implications of each. 45 hrs.

2013. MEDICAL-SURGICAL NURSING II

Nursing of conditions of illness requiring medical and/or surgical treatment. Emphasis on pathophysiologic and psychosocial aspects of patient care needs. Topics include patient teaching, discharge planning, nutritional and pharmacological considerations. Introduces various aspects of emergency and disaster nursing. 90 hrs.

CLINICAL PRACTICE (846 clinical hours)

Experience is integrated throughout the program to coincide with the theory content presented. Experience in a variety of special care areas is provided such as operating, recovery and emergency room; psychiatric and medical-surgical settings, and in maternity and pediatric health care. Students who successfully complete progress through the following modules will be eligible to take the Texas State Licensed Vocational Nursing exam.

MODULE I-BASIC NURSING

- 1001. Personal and Vocational Relationships
- 1003. Fundamentals of Vocational Nursing
- 1004. Pharmacology
- 1005. Nutrition
- 1006. Body Structure and Function

Clinical focus is on Basic Nursing Skills.

MODULE II-LONG-TERM CARE

- 1004. Pharmacology
- 2007. Geriatric Nursing
- 2009. Medical-Surgical Nursing I

Clinical focus is on Long-Term Care Nursing.

MODULE III-ACUTE AND FAMILY CARE

- 1007. Normal Growth and Development
- 2008. Mental Health and Mental Illness
- 2011. Maternal-Child Health Nursing
- 2012. Pediatric Nursing
- 2013. Medical-Surgical Nursing II

Clinical focus is on Acute Care, Maternity and Pediatric Nursing.