

# COURSE DESCRIPTIONS - UNDERGRADUATE

Undergraduate courses offered by SBU are divided into four categories.  
In general, the following may be considered guidelines:

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| 1. 1000 level courses are primarily for freshman students.   | 3. 3000 level courses are primarily for junior students and those students with essential prerequisites or backgrounds. |
| 2. 2000 level courses are primarily for sophomore students and those students with essential prerequisites or backgrounds. | 4. 4000 level courses are primarily for senior students and those students with essential prerequisites or backgrounds. |

## ACCOUNTING

### **ACC 2013. Principles of Financial Accounting - 3 hours (Fall, Spring)**

An introduction to the concepts and principles underlying accounting and financial information as used in operating a business. Basic fundamentals of financial accounting from both a preparer's and a user's perspective will be presented. The impact of business events on an entity's financial position will be emphasized through an understanding of an organization's operating, investing, and financial activities. Prerequisite: 24 hours completed.

### **ACC 2043. Principles of Managerial Accounting - 3 hours (Fall, Spring)**

A study of managerial accounting that focuses on the role of accounting in the improvement of management practices and pays specific attention to: cost accumulation, cost behavior, accounting analysis, budgeting, management decision-making and control, time-value-of-money and capital budgeting. Prerequisite: ACC 2013.

### **ACC 295(1-4). Special Topics in Accounting - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit. Note: Depending on the topic, there may be an additional fee.

### **ACC 3023. Managerial Cost Accounting - 3 hours (Fall)**

Emphasizes cost accumulation by specific order, process, and overhead cost methods as managerial tools in planning, monitoring, and controlling organization activities. Additional focus is on the improvement of management practices through understanding the behavior of costs, budgeting, and accounting analysis. Prerequisite: ACC 2043.

### **ACC 3024. Intermediate Accounting I - 4 hours (Fall)**

Comprehensive study of current accounting principles and their application to the measurement and the reporting of assets and liabilities with emphasis on their effect on income and expense recognition. The concept of time-value-of-money as it relates to accounting is introduced. Prerequisite: ACC 2043.

### **ACC 3033. Accounting Information Systems - 3 hours (Spring)**

Study of accounting information systems, accounting-related information, and computer software as applied to the financial reporting and managerial decision-making needs of businesses and organizations. A primary focus will be applying these principles through the use of accounting and business software to organize, process, and manage financial information for reporting and management purposes. Course fee: \$30. Prerequisite: ACC 3024.

### **ACC 3034. Intermediate Accounting II - 4 hours (Spring)**

Continuation of ACC 3024 with emphasis on the liability and the stockholders' equity sections of the balance sheet. Includes a study of financial statement analysis, the cash flow statement, and specific accounting issues such as investments, revenue recognition, income tax accounting, pensions/post-retirement benefits, leases, accounting changes and errors, earnings per share and segment reporting. Prerequisite: ACC 3024.

### **ACC 3063. Tax Accounting I - 3 hours (Fall)**

Course deals with federal tax laws. Primary emphasis placed upon research of federal tax treatment and tax planning of business transactions in the preparation of individual tax returns. Prerequisite: ACC 2043.

### **ACC 3073. Tax Accounting II - 3 hours (Winterfest)**

Continuation of ACC 3063. Course deals with federal tax laws as they pertain to partnerships, corporations, gifts, estates and trusts. Special emphasis on research of tax treatment and tax planning of capital changes, securities, foreign income and specially taxed entities. Prerequisite: ACC 3063.

### **ACC 4013. Advanced Accounting - 3 hours (Fall)**

Study of financial accounting principles as applied to partnerships, consolidations, foreign exchange and selected specialized areas of accounting practice. Prerequisite: ACC 3034.

### **ACC 4021. CMA Review: Financial Planning, Performance and Control - 1 hour (Fall, Spring, Summer, Winterfest)**

A self-study review of general business issues in the areas of business economics, global business, internal controls, quantitative methods and financial statement analysis. Fee: \$10.

### **ACC 4031. CMA Review: Financial Decision Making - 1 hour (Fall, Spring, Summer, Winterfest)**

A self-study review of management accounting methods, including budget preparation, cost management, information management, performance measurement and external financial reporting. Fee: \$10.

**ACC 4044. Auditing - 4 hours (Spring)**

Emphasis on the objectives of audits, duties and obligations of the auditor, principles and procedures utilized in conducting a financial statement audit. Prerequisite: ACC 3034.

**ACC 4053. Accounting for Government and Not-For-Profit Entities - 3 hours (Spring)**

Study of the accounting principles applicable to federal, state and local government units and other not-for-profit organizations; emphasis on the use of funds in recording and analyzing unit operations. Prerequisite: ACC 3024.

**ACC 4061. CPA Review: Auditing and Attestation - 1 hour (Fall, Spring, Summer, Winterfest)**

A self-study review of current financial statement auditing and attestation principles, objectives, and procedures. Prerequisite: 23 hours of accounting. Fee \$10.

**ACC 4071. CPA Review: Financial Accounting and Reporting - 1 hour (Fall, Spring, Summer, Winterfest)**

A self-study review of current financial accounting standards and procedures to account for and report financial transactions and events of organizations. Prerequisite: 23 hours of accounting. Fee \$10.

**ACC 4081. CPA Review: Regulation - 1 hour (Fall, Spring, Summer, Winterfest)**

A self-study review of regulatory issues such as federal taxation, business law, and ethics as it relates to the accounting profession. Prerequisite: 23 hours of accounting. Fee \$10.

**ACC 4091. CPA Review: Business Environment and Concepts - 1 hour (Fall, Spring, Summer, Winterfest)**

A self-study review of general business issues and concepts needed to understand the business reasons for, and accounting implications of, business transactions. Prerequisite: 23 hours of accounting. Fee \$10.

**ACC 495(1-4). Intensive Studies in Accounting - 1-4 hours (On demand)**

Topics vary with each offering; therefore, the course may be repeated for credit.

**ACC 498(1-3) Internship in Accounting - 1-3 hours (Fall, Spring, Summer, Winterfest)**

Academically planned and supervised work experience in areas of the student's major within business or other organizations, approved by the faculty advisor and department chair as an enhancement to the student's educational preparation at SBU. Written reports will be required of the student and performance reports from the employer. A maximum of six semester hours of internships may be applied to the major. Prerequisites: 60 hours completed.

**ACC 499(1-3). Independent Study in Accounting - 1-3 hours (On Demand)**

Independent study of some problem or area not covered in organized courses under the direction of a department member in whose field of specialization the problem area lies. Prerequisites: 3.00 GPA in major field, and 60 hours completed.

**ART****ART/FAR 1013. Introduction to Art – 3 hours (Spring)**

An introduction to art from all historical periods to help the non-art and art major develop an understanding of the role of art in the life of man and the value of art to the individual. Required for art majors. Course fee \$30.

**ART 1103. Design - 3 hours (Fall)**

An introduction to basic two-dimensional visual design through the use of traditional materials and tools to investigate line, shape, value, texture and color with an emphasis on spatial relationships.

**ART 1203. Drawing I - 3 hours (Fall, Spring)**

An introduction to traditional drawing through an understanding of basic principles of composition, proportion and perspective. Emphasis on representational drawing, drawing methods and drawing tools and materials.

**ART 2003. Photography I - 3 hours (Fall, Spring)**

An introduction to the use of traditional camera and dark room equipment. Emphasis on creative photographic composition, developing and enlarging in black and white, critique and presentation of printed work. Must have access to a 35 mm SLR camera. Lab fee \$35.

**ART 2013. Ceramics I - 3 hours (Fall)**

An introduction to basic clay production techniques including hand-building, wheel-throwing and basic glazing applications. Lab fee \$20.

**ART 2023. Sculpture I - 3 hours (Spring)**

An introduction to basic three-dimensional design, principles, concepts and production techniques. Lab fee \$20. Prerequisite: ART 1103.

**ART 2033. Painting I - 3 hours (Spring)**

An introduction to basic water-based painting on canvas with an emphasis on representational, painterly composition. Prerequisite: ART 1103, 1203.

**ART 2203. Drawing II - 3 hours (Fall)**

An intermediate drawing course through creative use of, and experimentation with, a variety of drawing media. Prerequisite: ART 1203.

**ART 2703. Introduction to Graphic Design - 3 hours (Fall, Spring)**

Introduction-level course to be concerned primarily with basic issues and topics in graphic design. The course will introduce vector-based, paint-based, and layout-capable software applications through studio lecture, in-class exercises, and a variety of project assignments. Lab fee \$35. Prerequisite: Art 1103.

**ART 2803. Art History I - 3 hours (Fall)**

Illustrated study of architecture, painting, sculpture and applied arts from prehistoric times to the Italian Renaissance.

**ART 2813. Art History II - 3 hours (Spring)**

Illustrated study of architecture, painting, sculpture and applied arts from 14th through 20th century.

**ART 3003 Life Drawing - 3 hours (Fall)**

An advanced drawing course with a concentration on the representation of the human figure. Lab fee \$20. Prerequisites: ART 1103 and 1203.

**ART 3013. Ceramics II - 3 hours (Fall)**

An intermediate study of ceramic techniques with emphasis on wheel-throwing, glaze-testing and surface treatment. Lab fee \$20. Prerequisite: ART 2013.

**ART 3023. Sculpture II - 3 hours (Spring)**

Development of techniques in a variety of three-dimensional projects. Emphasis on artistic creativity. Lab fee \$25. Prerequisite: ART 2023.

**ART 3033. Painting II - 3 hours (Fall)**

An intermediate exploration of painting with an emphasis on creative approaches to imagery, content and technique. Prerequisite: ART 2033.

**ART 3043. Graphic Design Production - 3 hours (Spring)**

Graphic design course to be concerned primarily with pre-press issues and topics, graphic design production and finishing methods, publication matters, and basic time-based media development. Lab fee \$35. Prerequisite: Art 2703.

**ART 3103. Printmaking - 3 hours (Spring)**

A course concerned primarily with commercial printing and/or traditional printmaking issues and topics. Lab fee \$25. Prerequisite: ART 2703.

**ART 3203. Advanced Drawing Studio I - 3 hours (Fall, Spring)**

An advanced, traditional drawing course with an emphasis on artistic creativity. Prerequisite: ART 2203.

**ART 3213. Advanced Drawing Studio II - 3 hours (Fall, Spring)**

An advanced, traditional drawing course with an emphasis on artistic creativity. Prerequisite: ART 3203.

**ART 3323. Photography II - 3 hours (Fall)**

An intermediate exploration of traditional photography with an emphasis on commercial approaches to imagery, content and technique. Black and white. Lab fee \$35. Prerequisite: ART 2003.

**ART 3403. Advanced Ceramics Studio I - 3 hours (On demand)**

An advanced study of ceramics with an emphasis on advanced ceramic techniques, glaze calculation and artistic creativity. Lab fee \$25. Prerequisite: ART 3013.

**ART 3413. Advanced Ceramics Studio II - 3 hours (On demand)**

An advanced study of ceramics with an emphasis on advanced ceramic techniques, glaze calculation and artistic creativity. Lab fee \$25. Prerequisite: ART 3403.

**ART 3503. Advanced Sculpture Studio I - 3 hours (On demand)**

Advanced problems in three-dimensional media. Emphasis on creativity. Lab fee \$15. Prerequisite: ART 3023.

**ART 3513. Advanced Sculpture Studio II - 3 hours (On demand)**

Continuation of ART 3503. Lab fee \$15.

**ART 3603. Advanced Painting Studio I - 3 hours (On demand)**

Advanced studies in studio problems. Time and topic arranged by student and instructor. Prerequisite: ART 3033.

**ART 3613. Advanced Painting Studio II - 3 hours (On demand)**

Continuation of ART 3603.

**ART 3703. Graphic Design Concepts - 3 hours (Fall)**

Intermediate-level graphic design course to be concerned primarily with related inter-media projects ranging from traditional print designs, to simple packaging, and basic visual presentation development. Lab fee \$35. Prerequisite: ART 3043.

**ART 3713. Graphic Design Portfolio I - 3 hours (Fall)**

Advanced team-oriented graphic design course to be concerned primarily with professional issues and topics in visual communication design. Work development for the course will necessarily build upon both conceptual and pragmatic understandings developed in Graphic Design Studio Production and Graphic Design Concepts. All projects assigned will involve design studio-business issues and topics. Continuation of ART 3703. Lab fee \$35.

**ART 3723. Digital Imaging Concepts - 3 hours (Spring)**

Concentrated study of image-based visual communication concepts and studio techniques. Lab fee \$35. Prerequisite: ART 2703.

**ART 3813. Fibers - 3 hours (Spring)**

An introduction to the knowledge of various fibers and their use. Course fee \$25. Prerequisite: ART 1103.

**ART 4001. Senior Seminar (capstone/senior show) – 1 hour (Fall, Spring)**

This course is designed to facilitate preparation and presentation of the Senior Show. It should be taken in the last semester of coursework for both General Art and Commercial Art majors. Art Education majors cannot take this course the semester of student teaching; generally, it should be taken the semester before student teaching. A portion of this class will also be used to facilitate student preparation and departmental assessment of the Senior Portfolio Review prior to the Senior Show or Exit Exhibition.

**ART 4003. Computer Application/Commercial Art (Fall, Spring)**

Selected problems for the advanced graphic design student. This course may be repeated for a total of 12 credit hours and may be used as art core and/or general electives. Lab fee \$35. Prerequisite: ART 3043.

**ART 4203. Advanced Drawing Studio III - 3 hours (On demand)**

Continuation of ART 3213.

**ART 4213. Advanced Drawing Studio IV - 3 hours (On demand)**

Continuation of ART 4203.

**ART 4303. Photography Senior Project - 3 hours (Spring)**

Advanced-level imaging course developed to display advanced student achievement. Work developed for the course will build upon previous coursework in digital imaging. The course will consist of two major parts: Each student will propose and develop an approved, in-depth professional quality visual communication concept. In addition, each student will develop and provide a profession-oriented portfolio for exit review. Lab fee \$35. Required for completion of Digital Imaging concentration in Commercial Art.

**ART 4313. Photography Portfolio - 3 hours (Fall)**

Advanced-level digital imaging course to be concerned primarily with professional issues and topics in visual communication design. Work developed for the course will necessarily build upon both conceptual and practical understandings developed in previous coursework. All projects assigned will involve studio-business issues and topics. Emphasis on individual portfolio development. Lab fee \$35. Required for completion of Digital Imaging concentration in Commercial Art.

**ART 4403. Advanced Ceramics Studio III - 3 hours (On demand)**

Continuation of ART 3413. Lab fee \$15.

**ART 4503. Advanced Sculpture Studio III - 3 hours (On demand)**

Continuation of ART 3513. Lab fee \$15.

**ART 4603. Advanced Painting Studio III - 3 hours (Fall, Spring)**

Continuation of ART 3613.

**ART 4613. Advanced Painting Studio IV - 3 hours (Fall, Spring)**

Continuation of ART 4603.

**ART 4703. Graphic Design Senior Project - 3 hours (Fall)**

Advanced-level graphic design studio course developed to display advanced student achievement. Work developed for the course will build upon both conceptual and pragmatic understandings developed in Graphic Design Studio Production, Graphic Design Concepts, and Graphic Design Portfolio. The course will consist of two major parts: Each student will propose and develop an approved, in-depth professional quality visual communication concept. In addition, each student will develop and provide a profession-oriented portfolio for exit review. Lab fee \$35. Required for completion of Graphic Design concentration in Commercial Art.

**ART 4713. Graphic Design Portfolio II - 3 hours (Spring)**

Advanced graphic design course to be concerned primarily with professional issues and topics in visual communication design. Work developed for the course will necessarily build upon both conceptual and practical understandings developed in Graphic Design Studio Production, Graphic Design Concepts, and Graphic Design Portfolio I. All projects assigned will involve design studio-business issues and topics. Continuation of ART 3713. Emphasis on individual portfolio development. Lab fee \$35.

**ART 495(1-4). Intensive Studies in Art - 1-4 hours**

Selected problems for the advanced student in one topic.

**ART 4963. Practicum in Commercial Art - 3 hours (On demand)**

Prerequisite: 30 hours completed.

**ART 4983. Internship in Commercial Art - 3 hours (On demand)**

On the job training in a professional setting. Prerequisite: ART 3713 and 72 hours completed.

**ART 499(1-3). Independent Studies - 1-3 hours (Fall, Spring)**

Advanced studies or creative art projects with specific topics approved by department chair.

**Methods in Art Education (K-12) (Fall)**

(See EDU 4512)

**ATHLETIC TRAINING****ATH 2013. Intro to Athletic Training - 3 hours (Fall)**

Prepares athletic training students (ATS) for a proactive approach to athletic health care. Introductory issues include the profession and history of AT, ethics, the professional literature, epidemiology, pre-participation physical, conditioning and strength training, pharmacology, environmental conditions, protective devices, regulations and the law, emergency care, documentation, and nutritional aspects of sports performance. Course fee \$52.

**ATH 3013. Athletic Training Techniques I - 3 hours (Fall)**

Prepares ATS for basic care and prevention of athletic injuries to include the identification of common physical disorders, sports trauma, typical injury management, taping, bracing and medical documentation. Course fee \$52. Prerequisite: ATH 2013.

**ATH 3022. Athletic Training Practicum I - 2 hours (Fall)**

ATS will learn and integrate athletic training principles and skills in a practical environment typically done on the campus of SBU with intercollegiate athletics. Course fee \$52. Prerequisite: ATH 2013.

**ATH 3103. Sports Performance - 3 hours (Spring)**

Prepares the ATS to effectively manage the health care of the athlete by recognizing and implementing appropriate strategies to enhance sports performance based on sound physiological principles including the use of drugs in sports performance, nutritional aspects, strength and resistive training, and anaerobic/aerobic training. Prerequisite: ATH 3013.

**ATH 3114. Athletic Training Evaluation: Above Diaphragm - 4 hours (Fall)**

Prepares the ATS to properly identify, examine and assess athletic injuries to the head, spine, upper extremity, and thorax. This course has a laboratory component with three lectures and one laboratory each week. Lab fee \$52. Prerequisite: ATH 2013.

**ATH 3122. Athletic Training Practicum II - 2 hours (Spring)**

ATS will learn and integrate athletic training principles and skills in a practical environment typically done on the campus of SBU with intercollegiate athletics. This is an expansion of ATH 3022 Athletic Training Practicum I with increased roles and responsibilities. Prerequisite: ATH 3022.

**ATH 3124. Athletic Training Evaluation: Below Diaphragm - 4 hours (Spring)**

Prepares the ATS to properly identify, examine and assess athletic injuries to the lower extremity, abdomen, and general medical conditions. This course has a laboratory component with three lectures and one laboratory each week. Lab fee \$52. Prerequisite: ATH 3114.

**ATH 3133. General Medical and Pharmacology - 3 hours (Spring)**

Prepares the athletic training student to properly identify, examine and assess general medical conditions. This course will also prepare the athletic training student to understand the physiology of pharmaceuticals, indications, contraindications and adverse side effects of common pharmaceuticals utilized with the athletic realm. Prerequisite: ATH 3114.

**ATH 4014. Therapeutic Modalities - 4 hours (Fall)**

Prepares the ATS to choose and effectively utilize the proper therapeutic modality to manage signs and symptoms commonly associated with athletic injuries including thermal, electrical, sound, biofeedback, and mechanical. Management of common medical disorders will also be discussed. This course has a laboratory component with three lectures and one laboratory each week. Lab fee \$52. Prerequisite: ATH 3124.

**ATH 4022. Athletic Training Practicum III - 2 hours (Fall)**

ATS will learn and integrate athletic training principles and skills in a practical environment typically done on the campus of SBU with intercollegiate athletics. This is an expansion of ATH 3122 Athletic Training Practicum II with increased roles and responsibilities of the ATS. Course fee \$52. Prerequisite: ATH 3122.

**ATH 4034. Sports Rehabilitation - 4 hours (Fall)**

Prepares the ATS to select, implement and manage the most effective rehabilitative procedures for a given athletic injury to restore lost function to the athlete so that the individual may return safely to the desired field of competition. The psychosocial aspects of injury will be presented. This course has a laboratory component with three lectures and one laboratory each week. Lab fee \$52. Prerequisite: ATH 3124.

**ATH 4113. Athletic Training Administration - 3 hours (Spring)**

Introduces the ATS to basic administrative skills and techniques to successfully manage the health care of the athlete. Topics include organizational theory, program management, financial resource management, facility planning, information management, insurance implications, and legal issues. Prerequisite: ATH 4023.

**ATH 4122. Athletic Training Practicum IV - 2 hours (Spring)**

ATS will learn and integrate athletic training principles and skills in a practical environment typically done on the campus of SBU with intercollegiate athletics. This is an expansion of ATH 4022 Athletic Training Practicum III with increased roles and responsibilities of the ATS. An emphasis will be placed on the rehabilitation and modalities domains. Prerequisite: ATH 4022.

**ATH 4133. Athletic Training Professional Seminar - 3 hours (Spring)**

The capstone experience will provide an opportunity to analyze and synthesize current and relative special topics in the profession of athletic training as it pertains to professional development or the care of the athlete. Special attention will be given to clinically based research application and professional development. Prerequisite: ATH 4023.

**ATH 4963. Athletic Training Field Experience I - 3 hours (Fall)**

Athletic Training students (ATS) will apply the knowledge and skills they have acquired from the academic and clinical practicum courses previously taken. All application will take place in the intercollegiate athletic training setting. Prerequisite: ATH 4123.

**ATH 4973. Athletic Training Field Experience II - 3 hours (Spring)**

Athletic Training students (ATS) will apply the knowledge and skills they have acquired from the academic and clinical practicum courses previously taken. All application will take place in the intercollegiate athletic training setting. Prerequisite: ATH 4123.

**BIBLE****BIB 1013. Old Testament History - 3 hours (Fall, Spring)**

A study of the history of Israel in the Old Testament with attention given to historical background, literary features, theological teaching, and contemporary relevance.

**BIB 1023. New Testament History - 3 hours (Fall, Spring)**

A study of the life of Jesus and the founding of the church in the New Testament with attention given to historical background, literary features, theological teaching, and contemporary relevance.

**BIB 2093. Methods of Biblical Interpretation - 3 hours (Fall; Spring, odd years)**

Introduction to the task of interpreting the Bible in its literary and historical context and applying its teaching to modern life. Particular attention is given to principles concerning the qualifications and presuppositions of the interpreter, the nature of prose and poetic literature, and the character of the various genres found in both testaments. Prerequisites: BIB 1013 and BIB 1023.

**BIB 295(1-3). Special Topics in Bible - 1-3 hours**

Exegetical studies of key biblical passages (the course may be taken more than once). Prerequisite: BIB 1013 or 1023 or concurrent enrollment.

**BIB 3023. The Jewish Backgrounds of the New Testament - 3 hours (On demand)**

An advanced study of Judaism during the intertestamental period, with special attention given to the political, literary, cultural and theological developments that affect the New Testament and its interpretation. Prerequisites: BIB 1013, BIB 1023.

**BIB 3033. Old Testament Hymnic and Wisdom Literature - 3 hours (Spring, even years)**

Historical and exegetical study of the hymnic and wisdom literature in the Old Testament: Job, Psalm, Proverbs, Ecclesiastes and Song of Solomon. Prerequisite: BIB 1013.

**BIB 3043. Pentateuch - 3 hours (Spring, odd years)**

Study of the first five books of the Bible with special attention given to introductory problems related to the Pentateuch. Prerequisite: BIB 1013.

**BIB 3053. Early Pauline Epistles - 3 hours (Fall, odd years)**

Historical and exegetical study of Paul's epistles to the Thessalonians, Corinthians and Galatians. Prerequisite: BIB 1023.

**BIB 3063. Later Pauline Epistles - 3 hours (Fall, even years)**

Historical and exegetical study of Romans, Paul's prison and pastoral epistles. Prerequisite: BIB 1023.

**BIB 3083. Hebrews and General Epistles - 3 hours (Spring, even years)**

Historical and exegetical study of Hebrews and the general epistles. Prerequisite: BIB 1023.

**BIB 4003. Archaeology and the Bible - 3 hours (Spring, even years)**

An introduction to the methods and results of archaeology in relation to the Bible. Prerequisites: BIB 1013 and 1023.

**BIB 4023. Life and Teachings of Christ - 3 hours (Spring, odd years)**

Study of life and teaching of Christ as presented in the four gospels. Prerequisites: BIB 1023 and 64 hours completed

**BIB 4043. Old Testament Prophetic Books - 3 hours (Fall, odd years)**

Study of selected Prophetic Books of the Old Testament with attention given to exposition of their content, discernment of their theological significance, and discussion of scholarly issues. Prerequisites: BIB 1013 and 64 hours completed.

**BIB 4053. Old Testament Historical Books - 3 hours (Fall, even years)**

Study of the Historical Books of the Old Testament with attention given to exposition of their content, discernment of their theological significance, and discussion of scholarly issues. Prerequisites: BIB 1013 and 64 hours completed.

**BIB 4063. Intercultural Theologizing - 3 hours (Semester Abroad)**

A study of how cultural and social convictions influence religious expressions, how the biblical message engages all cultures, and how the student's overseas context requires cross-cultural application of the gospel.

**BIB/THE 4073. New Testament Theology – 3 hours**

An introduction to the discipline of biblical theology as it is undertaken in relation to the New Testament. Included is a discussion of methods, attendant methodological and hermeneutical problems, and possible results in a survey of the theology of the New Testament. Can also be taken for theology credit. Prerequisite: BIB 2093.

**BIB 495(1-4). Intensive Studies in Bible - 1-4 hours**

Investigation of selected books of the Bible and/or biblical themes. Areas of study will vary from year to year (the course can be taken more than once.) Prerequisites: BIB 1013 and 1023 and 64 hours completed.

**BIOLOGY****BIO 1004. Principles of Biology - 4 hours (Fall, Winterfest, Spring, Summer)**

An introductory, multifaceted survey of biology including: cell theory, genetics, evolutionary theory, survey of living organisms, ecology, and human biology. Three lectures and one laboratory each week. Lab fee \$48.

**BIO 1111. Biology Colloquium - 1 hour (Fall, Spring)**

Presentation and discussion of biological topics, current events, and opportunities in the field. One lecture each week. Course fee \$20.

**BIO 1115. Honors Biology - 5 hours (On demand)**

An honors-level course presenting the basic facts and principles of biology. Topics covered will include cell structure and function, genetics, plant structure, physiology and animal anatomy and physiology. Four lectures, one lab each week. Lab fee \$50. Prerequisite: ACT score of 25 in Science Reasoning.

**BIO 2204. Human Anatomy and Physiology I - 4 hours (Fall)**

An introduction to the study of form and function of the human body. This course is the first in a two-semester sequence. Particular attention will be given to the study of cells, tissues, and metabolism, as well as the skeletal, muscular, respiratory and digestive systems. Three lectures, one laboratory each week. Lab fee \$48. Prerequisite: BIO 1004 or ACT of 24 in Science Reasoning.

**BIO 2134. General Zoology - 4 hours (Spring)**

An introduction to the principles of classification of animals. Animal life will be examined with respect to cell organization, genetics, evolution, anatomy/physiology, and interaction of animals with their environment. Three lectures; one laboratory each week. Lab fee \$48. Prerequisite: BIO 1004.

**BIO 2213. Introduction to Microbiology - 3 hours (Offered only at Springfield campus)**

An introduction study of general principles and microbiology, with an emphasis on the morphology, physiology and taxonomy of microorganisms. Special emphasis on disease producing bacteria, viruses and fungi. Topics in applied microbiology, immunology, sterilization and disinfection are introduced. Two lectures, one laboratory each week. Lab fee \$30. Prerequisites: BIO 1004 or BIO 2204 and CHE 1104 or CHE 1115. NOTE: A student who takes BIO 2213 and 3314 will receive credit only for BIO 3314.

**BIO 2214. Environmental Biology - 4 hours (Fall, odd years )**

An objective contemporary study of the environment and man's effect upon it. A holistic approach is taken in studying relevant problems relating to population growth, pollution and the preservation of natural ecosystems.

**BIO 2223. Invertebrate Zoology - 3 hours (On demand)**

Examination of the morphology, physiology and taxonomy of the invertebrates. Two lectures, one laboratory each week. Lab fee \$48.

**BIO 2234. General Botany - 4 hours (Fall)**

A study of the plant world. Fungi, algae, bryophytes, seedless vascular plants, gymnosperms and angiosperms will be studied with regard to their life history, morphology, physiology and taxonomic relationships. Three lectures, one lab each week. Lab fee \$48. Prerequisite: BIO 1004.

**BIO/HPE 2243. Nutrition - 3 hours (Fall, Spring)**

Nutritional requirements of mankind with emphasis on the roles of nutrients in the body throughout the life cycle. **Note:** This course may not be included in the curriculum for a biology major.

**BIO 295(1-4). Special Topics - 1-4 hours (On demand)**

Topics of special interest not available to the student from the traditional course offerings. May be repeated as the topics change. Lab fee will be based on topic.

**BIO/CHE 3012. Methods in Scientific Research - 2 hours (Fall)**

A study of the principles and techniques used to develop and construct a scientific proposal. Topics include statistical analysis, experimental design, developing a proposal, determining a budget, and scientific presentations. Two lectures each week. Prerequisites: Biology/chemistry major or minor with 64 hours completed.

**BIO 3304. Human Anatomy and Physiology II - 4 hours (Spring)**

This course is a continuation of Biology 2204. Areas of study will include: the nervous, endocrine, circulatory, lymphatic, and the urogenital systems. Three lectures, one laboratory each week. Lab fee \$48. Prerequisite: BIO 1004 or BIO 2204.

**BIO 3314. Microbiology - 4 hours (Fall, even years, rotating with BIO 3364)**

A study of the cultural characteristics, morphology, metabolism, taxonomy and infection of microorganisms, with emphasis on methods of isolation, growth and identification. Three lectures, one laboratory each week. Lab fee \$48. Prerequisites: BIO 1004 and CHE 1115.

**BIO 3322. Introduction to Immunology - 2 hours (On demand)**

Fundamental principles of immunology and serology. The structure and function of the immune system, antigen-antibody interaction, other serological reaction, immunoglobulin formation and immunosuppression. Two lectures each week. Prerequisite: BIO 3314.

**BIO 3324. Genetics - 4 hours (Fall)**

Consideration of the nature, transmission, variation, and action of the hereditary material in relation to the laws and theories of heredity in both plants and animals. Three lectures, one laboratory each week. Lab fee \$98. Prerequisite: BIO 1004.

**BIO 3334. Ecology - 4 hours (Spring)**

Study of the relations of animals and plants to each other and to their environment. Three lectures, one laboratory each week. Lab fee \$48. Prerequisite: BIO 1004. (BIO 2134 and 2234 recommended.)

**BIO 3335. Comparative Vertebrate Anatomy - 5 hours (On demand)**

Comparative study of organs and organ systems of selected representative vertebrates. Three lectures, two laboratories each week. Lab fee \$68. Prerequisite: BIO 1004 and 64 hours completed.

**BIO 3344. Vertebrate Physiology - 4 hours (On demand)**

Study of the functional process of vertebrate organs and organ systems and their physiological integration. Three lectures, one laboratory each week. Lab fee \$48. Prerequisites: BIO 1004 and 2134 and CHE 1115.

**BIO 3354. Plant Taxonomy - 4 hours (Spring, even years)**

A study of the principles of classification and nomenclature, a survey of the major vascular plant families and the identification of local plants. Two lectures, two laboratories each week. Lab fee \$48. Prerequisite: BIO 2234.

**BIO/CHE 3364. Biochemistry - 4 hours (Fall, odd years)**

A study of the chemistry and metabolism of biologically important compounds. Includes the biochemistry of proteins, lipids and carbohydrates, nucleic acids and the energetics of living organisms. Three lectures and one laboratory each week. Lab fee \$98. Prerequisite: CHE 3314. CIS 1103 is strongly recommended.

**BIO 3384. Histology - 4 hours (Spring, every third year, rotating with BIO 3394 and BIO 4444)**

A systematic cytological and histological study of animal tissues and organs with an introduction to basic histological procedures. Two lectures, two laboratories each week. Lab fee \$48. Prerequisites: BIO 2204 and 3304 or 3335.

**BIO 3394. Pathogenic Microbiology - 4 hours (Spring, every third year, rotating with BIO 3384 and BIO 4444)**

The study of pathogenic microorganisms, their mode of transmission, infection and control as they relate to humans. Bacterial, viral, fungal and parasitic diseases will be studied. Three lectures, one lab each week. Lab fee \$48. Prerequisite: BIO 3314.

**BIO 3454. Plant Physiology - 4 hours (On demand)**

Study of the principal physiological processes in plants. Topics include respiration, photosynthesis, biosynthesis of cellular constituents, mineral nutrition, transpiration, translocation, water relations, growth and development, hormones and plant responses to environmental variation. Three lectures, one lab each week. Lab fee \$48. Prerequisite: BIO 2234.

**BIO 3544. Wildlife Biology – 4 hours (Spring, odd years)**

A study of the principles and techniques used to manage and measure animal populations. Topics include managing endangered species and game animals, the impacts of habitat fragmentation on wildlife populations, and the use of habitat corridors. Three lectures, one laboratory each week. Lab fee \$48. Prerequisites: BIO 1004, BIO 2134 (BIO 3334 recommended).

**BIO 4224. Cell and Molecular Biology - 4 hours (Spring)**

The study of the structure and function of cellular organelles, cell transport, signal transduction, apoptosis, and cell cycle. DNA, transcription, translation, replication, control, repair, and gene expression will be studied as well as an introduction to bioinformatics within these disciplines. Three lectures, one laboratory each week. Lab fee \$98. Prerequisites: BIO 1004 and 64 hours completed.

**BIO 4404. Pathophysiology - 4 hours (Spring)**

The study of human diseases and the mechanisms that govern them. Four lectures each week. Prerequisites: BIO 2204 and BIO 3304 and 64 hours completed.

**BIO 4414. Freshwater Biology - 4 hours (Fall, even years)**

Study of the freshwater ecosystem. The course is designed to include four major areas: water chemistry, including characteristics of lakes, rivers and streams; plankton, including algae and zooplankton; fisheries; and aquatic entomology. Three lectures, one laboratory each week. Lab fee \$68. Prerequisites: BIO 1004 and 64 hours completed.

**BIO 4444. Vertebrate Embryology - 4 hours (Spring, every third year, rotating with BIO 3384 and BIO 3394)**

Study of the embryological development of the vertebrate and controlling mechanisms involved. Two lectures, two laboratories each week. Lab fee \$48. Prerequisites: BIO 1004, BIO 2134, and 64 hours completed.

**BIO 4471. Seminar in Biology - 1 hour (Fall)**

Investigation of biological literature related to selected topics and presentation of scientific material for group discussion and evaluation. One session each week. Prerequisite: Biology major or minor with 96 hours completed.

**BIO 448(1-3). Biological Investigations - 1-3 hours (Fall, Spring)**

Opportunity for qualified biology majors to conduct investigations in association with staff members on an acceptable phase of biology. By arrangement. Lab fee will be based on project. Prerequisites: Biology major or minor and 64 hours completed.

**BIO 498(1-3). Internship in Biology - 1-3 hours (Fall, Spring, Summer)**

A course designed to give the student on-the-job experience in the area of student's major. The purpose is to gain practical experience and enhance the student's educational preparation at SBU. Prerequisite: Biology major or minor and 64 hours completed.

**BIO 495(1-4). Intensive Studies in Biology - 1-4 hours (On demand)**

Intensive studies of special topics in biology. Topics will vary from time to time. The course may be repeated for different topics. Credit hours will be determined at the time of course planning. Lab fee will be based on course.

**BIO 499(1-3). Independent Studies - 1-3 hours (Fall, Spring)**

Advanced studies of specific topics arranged by departmental chair.

**Methods of Teaching Science in the Secondary School (see EDU 4522)****BUSINESS****BUS 1013. Introduction to Business - 3 hours (Fall, Spring)**

Introduction to the characteristics and practices of business in the American free enterprise system, including the environments of business and career opportunities in business. Open to all students except junior and senior Accounting and Business Administration majors.

**BUS/MAT 1193. Business Calculus - 3 hours (Fall, Spring)**

Derivatives and antiderivatives of functions inclusive of exponential and logarithmic, with applications to business and economics. **NOTE:** A student who takes BUS/MAT 1193 and MAT 1195 will receive credit for only MAT 1195. Prerequisite: MAT 1143 College Algebra or MAT 1163 Precalculus or satisfactory scores on the prealgebra and intermediate algebra portions of the Enhanced ACT Examination.

**BUS 2013. Business Communications - 3 hours (Fall, Spring)**

A general introduction to the uses of communication in the business world today. Four major sections include basic language usage; communication foundations and writing principles; business letters, memos and emails; and problem analysis and report writing. Prerequisites: ENG 2213.

**BUS 2023. Business Statistics - 3 hours (Fall, Spring)**

An introduction to business statistics. Students will calculate and interpret measures of center and dispersion. Normal, binomial, Chi-square, F, t, and Poisson distributions, elementary probability, sampling techniques, hypothesis testing, confidence intervals, linear correlation, simple and multiple regression, contingency tables and computer applications are also covered. Prerequisite: MAT 1143.

**BUS (2-3)06(1-2). PBL Practicum - 1-2 hours**

PBL Practicum is a course designed to enhance the benefits to be gained from participation in Phi Beta Lambda, the collegiate division of Future Business Leaders of America. Students will learn how to properly conduct business meetings, direct projects, work in teams to accomplish objectives and prepare business-related reports. Students may earn up to four hours of cumulative credit for this course.

**BUS 295(1-4). Special Topics in Business - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit.

**BUS 3073. Legal Environment of Business I (Business Law I) - 3 hours (Fall)**

Ethical, social and legal issues in business environment. The development and resolution of contemporary issues found in the business environment. Emphasis on the perspective and systematic approach to the law to such issues. Topical areas: legal history, reasoning, procedure; environmental, administrative, criminal and tort law; law of contracts, law of sales.

**BUS 3083. Business Enterprise/Debtor and Creditor Rights (Business Law II) - 3 hours (Spring)**

Legal alternatives in the structuring of the business enterprise and its relationships with employees. The rules of law governing financial transactions in today's business and personal affairs. Topical areas: agency, partnerships, corporation, personal property, real property, bailments, intellectual property rights, commercial paper, secured transactions and bankruptcy. Prerequisite: BUS 3073.

**BUS 4053. International Business - 3 hours (Spring)**

Introduction to the multinational business organization and environmental factors of international business. Emphasis on the development of sound problem-solving, decision-making methods in the analysis of environmental and organizational variables. The course also examines strategies for firms involved in marketing across national borders and in other countries. Special attention is given to planning and implementing marketing mix variables in international settings. Prerequisites: MGT 3013 and MKT 3023.

**BUS 477(1-3). International Experience - 1-3 hours (On demand)**

Inter-cultural experience and international travel. Requires a minimum of four weeks spent outside of the United States. For International Business program students, the country should ideally correspond to the specific modern language chosen in the degree plan. Students are responsible for costs of international travel and activities, in addition to the tuition.

**BUS 495(1-4). Intensive Studies in Business - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit.

**BUS 498(1-3). Internship in Business - 1-3 hours (Fall, Spring, Summer, Winterfest)**

Academically planned and supervised work experience in area(s) of the student's major within business or other organizations, approved by the faculty advisor and department chair as an enhancement to the student's educational preparation at SBU. Written reports will be required of the student and performance reports from the employer. A maximum of six semester hours of internships may be applied to the major. Prerequisites: 60 hours completed.

**BUS 499(1-3). Independent Study in Business - 1-3 hours (On demand)**

Independent study of some problem or area not covered in the organized courses under the direction of a faculty member in whose field of specialization the problem or area lies. Prerequisites: 3.00 GPA in major field, and 60 hours completed.

## CHEMISTRY

**CHE 1104. Principles of Chemistry - 4 hours (Fall)**

Fundamentals of chemistry, i.e., atomic structure, chemical periodicity, terminology, equations, kinetics, energy relationships, nuclear and descriptive chemistry. Three lectures, one laboratory each week. Does not satisfy the major or minor requirements for chemistry. Lab fee \$48. Prerequisite: High school algebra.

**CHE 1115. General Chemistry I - 5 hours (Fall)**

A study of the fundamental laws and theories involved in chemical changes. Topics will include atomic theory, thermochemistry and nuclear chemistry. Stress will be on the solving of mathematical problems which illustrate the principles of chemistry. The course is designed principally for students planning on careers related to the natural sciences. Four lectures, one laboratory each week. Lab fee \$60. Prerequisite: MAT 1143 or concurrent enrollment. **Note:** A student who takes CHE 1104 and 1115 will receive credit for only CHE 1115.

**CHE 1125. General Chemistry II - 5 hours (Spring)**

A continuation of CHE 1115 covering chemical equilibrium, oxidation-reduction, acid-base theory, thermodynamics, chemical kinetics, the basics of coordination chemistry, and an introduction to organic chemistry. Four lectures, one laboratory each week. Lab fee \$60. Prerequisite: CHE 1115.

**CHE 295(1-3). Special Topics in Chemistry - 1-3 hours (On demand)**

Topics of special interest not available to the student from the traditional course offerings. May be repeated as the topics change. Lab fee \$12-\$36 as necessary. Prerequisite: CHE 1125.

**CHE 3002. Environmental Chemistry - 2 hours (Spring, even years)**

The study of the sources, reactions, transport, effects and fates of chemical species in water, soil, air and living environments and the effects of technology thereon. Two lectures per week. Prerequisite: CHE 1125.

**CHE/ BIO 3012. Methods in Scientific Research - 2 hours (On demand)**

A study of the principles and techniques used to develop and construct a scientific proposal. Topics include statistical analysis, experimental design, developing a proposal, determining a budget, and scientific presentations. Two lectures each week. Prerequisites: Biology/chemistry major or minor with 64 hours completed.

**CHE 3304. Organic Chemistry I - 4 hours (Fall)**

Study of the theory and mechanisms of the basic reactions of organic compounds and their derivatives. Emphasis on alkyl halides, alkanes, alkenes, stereochemistry, alicyclics, alkynes and dienes. Three lectures, one laboratory each week. Lab fee \$48. Prerequisite: CHE 1125. CIS 1103 is strongly recommended.

**CHE 3314. Organic Chemistry II - 4 hours (Spring)**

Continuation of CHE 3304. Emphasis on aromatic compounds, interpretive spectroscopy, alcohols, carboxylic acids and their derivatives, aldehydes, ketones, amines and ethers. Three lectures, one laboratory each week. Lab fee \$48. Prerequisite: CHE 3304.

**CHE 3324. Physical Chemistry I - 4 hours (On demand)**

Study of physicochemical systems, kinetic theory, thermodynamics, chemical equilibria and solutions. Three lectures, one laboratory each week. Lab fee \$48. Prerequisites: CHE 1125, MAT 1195.

**CHE 3334. Physical Chemistry II - 4 hours (On demand)**

Study of experimental and theoretical chemical kinetics, statistical mechanics, electrochemistry, molecular structure and quantum chemistry. Topics chosen to provide maximum benefit to the students enrolled. Three lectures, one laboratory period. Lab fee \$48. Prerequisite: CHE 3324.

**CHE 3345. Analytical Chemistry - 5 hours (Spring)**

Study of the fundamental principles of quantitative analytical chemistry including basic statistics. An intensive laboratory experience which applies these principles to gravimetric, volumetric and electroanalytical determinations. Three lectures, two labs each week. Lab fee \$60. Prerequisite: CHE 1125.

**CHE 3354. Instrumental Analysis - 4 hours (Fall, odd years)**

Study of the basic principles of instrumental methods of analysis. Topics studied include optical methods, chromatographic methods and selected other modern methods. Three lectures, one laboratory each week. Lab fee \$48. Prerequisites: CHE 3304 or concurrent enrollment and either PHY 1124 or PHY 2225.

**CHE/BIO 3364. Biochemistry - 4 hours (Fall, odd years)**

A study of the chemistry and metabolism of biologically important compounds. Includes the biochemistry of proteins, lipids and carbohydrates, nucleic acids and the energetics of living organisms. Three lectures, one laboratory each week. Lab fee \$98. Prerequisite: CHE 3314. CIS 1103 is strongly recommended.

**CHE 3371. Seminar in Chemistry I - 1 hour (Spring)**

Presentation and discussion of modern developments in the field of chemistry. One session each week. Prerequisite: CHE 3304.

**CHE 4002. Interpretive Spectroscopy - 2 hours (On demand)**

The study of the four main spectral techniques used for the identification of known organic compounds and for the determination of the structures of unknown organic compounds -- infrared spectroscopy (IR), proton nuclear magnetic resonance spectroscopy (PMR), carbon-13 nuclear magnetic resonance spectroscopy (CMR) and mass spectroscopy (MS). Two lectures per week. Prerequisite: CHE 3314.

**CHE 4414. Advanced Inorganic Chemistry - 4 hours (On demand)**

Principles and theories of modern inorganic chemistry, including group theory, bonding, coordination chemistry and relationships of the periodic table. Three lectures, one laboratory each week. Lab fee \$48. Prerequisites: CHE 3314.

**CHE 4471. Seminar in Chemistry II - 1 hour (Spring)**

Presentation and discussion of modern developments in the field of chemistry. One session each week. Prerequisite: CHE 3314.

**CHE 448(1-3). Undergraduate Research in Chemistry - 1-3 hours (Fall, Spring)**

Independent research investigations. May be repeated with consent of department. Lab fee \$12-\$36. Consent of department chair or research director required. Prerequisites: CHE 3314 and CHE 3345.

**CHE 495(1-5). Intensive Studies in Chemistry - 1-5 hours (On demand)**

Topics of special interest not available to students in the traditional course offerings. Courses could include such topics as advanced organic chemistry, nuclear chemistry, quantum chemistry, reaction kinetics and polymer chemistry. May be repeated as topics change. Lab fee \$12-\$60 as necessary. Prerequisites: Determined by the nature of topics studied.

**CHE 499(1-3). Independent Study - 1-3 hours (On demand)**

Intensive individual study in areas of chemistry not usually covered in the normal curriculum. Prerequisites: Determined by the nature of topics studied. Consent of department chair required.

**CHRISTIAN EDUCATION****CED 2003. Introduction to Christian Education - 3 hours (Fall)**

A study of Christian education including history, faith development and Christian conversion, leadership, curriculum and facilities.

**CED 2033. Principles of Teaching in the Church - 3 hours (Spring)**

Basic principles and concepts of Christian teaching formulated and projected into planning and presented in church-related learning experiences.

**CED/REC 2062. Drama in the Church and Community - 2 hours (Spring, on demand)**

See REC 2062 for course description.

**CED 295(1-4). Special Topics in Christian Education - 1-4 hours**

A focus on special topics in the field of Christian education.

**CED 3013. Youth Ministry in the Church - 3 hours (Spring)**

A study of the objectives, organization and methodologies for youth, ages 12-17, and the directing of a youth program. Prerequisite: CED 2003

**CED 3023. Church and Denominational Administration - 3 hours (Fall)**

A functional study including duties of church officers and committees, constitutions, by-laws, and parliamentary procedure.

**CED 3043. Children's Ministry - 3 hours (Fall, even years)**

A study of ministries involving children from birth through sixth grade to include but not limited to Bible study methods, vacation Bible school, children's worship, child care facilities in the church, and child care during church events. Prerequisite: CED 2003.

**CED 4003. Adult Ministry in the Church - 3 hours (Fall, odd years)**

A study of the development tasks of adulthood and ministries with adults in the church. Prerequisite: CED 2003.

**CED 4053. Youth Discipleship and Evangelism - 3 hours (Spring)**

A study of (1) the challenges of youth and their culture (including suicide, pregnancy, parental problems, drugs) and (2) evangelism strategies, events and programs designed to reach unchurched youth. Prerequisites: BIB 1013, 1023, SPF 2012.

**CED 495(1-4). Intensive studies in Christian Education - 1-4 hours**

Focus on special areas of interest in the Christian education field. Topic will vary from year to year. (May be taken more than once). Prerequisites: CED 2003.

**CED 498(1-6). Apprenticeship in Christian Education - 1-6 hours (Fall, Spring, Summer)**

On-the-job training under the supervision of a full-time minister of education, minister of childhood education or youth minister. Includes observation, supervision, planning, instruction, guided practical leadership and evaluation. Prerequisite: Major in Christian Education (concentrations in general Christian education, youth ministry or children's ministry) or minor in student ministries and 96 hours completed. **Note: Apprenticeships are not paid positions; the student learns under the supervision of a qualified staff member. Assignment of apprenticeships is made strictly by the SBU faculty member involved, not by the student or a particular church.**

**CHRISTIAN MINISTRIES****CHR 2043. Introduction to Evangelism - 3 hours (Fall, odd years)**

An introduction to the biblical basis of and contemporary models for evangelism in order to develop effective methods for sharing the gospel in a variety of contexts.

**CHR/MUS 2712. Songleading for Small Churches - 2 hours (Spring, odd years)**

See MUS 2712 for course description.

**CHR 295(1-3). Special Topics in Christian Ministries - 1-3 hours (On demand)**

A focus on special topics in the field of Christian Ministries.

**CHR 3003. Introduction to Disciple-making - 3 hours (Spring)**

Study of the biblical definition and contemporary models of the disciple-making process, including practical training and experience in discipleship.

**CHR 3013. The Mission and Ministry of the Church - 3 hours (Fall)**

Study of the work of the various ministers of the local church with special attention given to the work of the minister of the word (pastor). Prerequisites: BIB 1013, 1023.

**CHR 3023. Introduction to Preaching - 3 hours (Spring, even years)**

A study of the task of preaching the Christian message to today's world including practice in preparing and delivering sermons. Some attention may be given to other types of religious communication.

**CHR/MUS 3752. Instrumental Ministry in the Church - 2 hours (Spring, even years)**

A practical study of the use of instrumental music in the church, including all aspects of instruments in music ministry. Techniques and materials used by the church pianist and organist involving hymn playing, modulation, transposition, improvisation, and accompanying choirs and soloists. The use of band and orchestra instruments in varying combinations and the use of handbells in music ministry. Prerequisite: Two semesters of piano (or organ) or permission of instructor.

**CHR/MUS 3783. Worship and Song in the Church - 3 hours (Fall)**

A historical survey of the worship practice and congregational song of the major Christian denominations with an emphasis on planning worship for today's churches.

**CHR 4003. Expository Preaching - 3 hours (Spring, odd years)**

A study is made of the expository method of preaching. Sermons by recognized expository preachers are considered. Each student develops expository sermons and presents one sermon for video taping and review. Prerequisite: CHR 3023.

**CHR/MUS 4101. Church Music Technology - 1 hour (Spring, even years)**

An introductory overview of the technology available to church musicians. Prerequisite: CIS 1103.

**CHR/MUS 4743. Church Music Administration - 3 hours (Fall, odd years)**

Study of the functional approach to the church music ministry including organization, administration, budget, calendar, scheduling, purchase and maintenance of equipment, rehearsal, performance, service planning, congregational activities and staff relations.

**CHR 495(1-4). Intensive Studies in Christian Ministries - 1-4 hours**

A focus on a special area of interest in the field of Christian Ministry. Areas of study will vary from year to year. (May be taken more than once).

**CHR 498(1-3). Christian Ministries Apprenticeship - 1-3 hours (Fall, Spring)**

Guidance of an apprentice in direct relationship to field work. Apprenticeships may be done in the following areas: Associational, chaplaincy, pastoral, church secretarial, missions and other approved areas. Prerequisite: 96 hours completed.

**Note: Apprenticeships are not paid positions; the student learns under the supervision of a qualified staff member.**

**Assignment of apprenticeships is made strictly by the SBU faculty member involved, not by the student or a particular church.**

**COMMUNICATION****COM 1103. Fundamentals of Speech Communication - 3 hours (Fall, Spring)**

Foundations of speech communication. Special attention to the theory and practice of effective preparation and delivery of public speeches.

**COM/TEC 1013. Media and Society - 3 hours (Fall, on demand)**

A study of communication strategies in mass media. The history, development and current structures of the media and their effects on society.

**COM/TEC 2043. Television Production I - 3 hours (Fall)**

An introduction to the art of television production. Special attention is given to the language and application of television in the laboratory setting. Course fee \$30.

**COM 2103. Newspaper Practicum – 3 hours (Fall, Spring)**

Guided practical experience in college newspaper production.

**COM/HON 2213. Honors Fundamentals of Speech Communication - 3 hours (Spring)**

Foundations of speech with emphasis upon speech preparation and delivery. Exploration of classical and contemporary rhetorical principles. Prerequisite: minimum ACT of 25 and/or enrollment in COM 4413.

**COM 2223. Argumentation and Debate - 3 hours (Fall)**

Emphasis on methods and theories of argumentation and debate. Attention to research, analysis, case building and oral participation. Prerequisite: ENG 1113 and COM 1103.

**COM 2233. Introduction to Public Relations - 3 hours (Fall)**

Emphasis upon understanding the theoretical foundations of public relations. Attention to practical methods and steps in conducting the processes and activities of public relations.

**COM 2393. Interpersonal Communication - 3 hours (Fall, Spring)**

Theory and practice of effective interpersonal encounters. Special attention to listening, language, self-perception, interviewing and nonverbal communication.

**COM 295(1-4). Special Topics - 1-4 hours****COM 3003. Communication Theory - 3 hours (Spring, On demand)**

Survey of theories in interpersonal, small group, organizational, rhetorical, mass media, and cultural communication contexts. Special emphasis on using theoretical knowledge to improve communication skills. Prerequisite: COM 1103.

**COM 3013. Rhetorical Theory and Criticism - 3 hours (Fall)**

This course offers in-depth exploration of both the theoretical and methodological aspects of rhetorical studies. Since rhetorical theories are foundational to the study and practice of effective communication, students will learn how to use both historical and contemporary rhetorical theories to analyze a variety of important texts including speeches, films, advertising campaigns, and any other type of persuasive discourse. Prerequisite: COM 1103 *or* COM 2393.

**COM 3043. Communication Research Methods - 3 hours (Spring)**

This course offers systematic study of the various types of research methodologies used in the communication discipline. Students will learn the basics of investigating communication phenomena using social, scientific, qualitative and critical rhetorical methods. Prerequisite: COM 1103 *or* COM 2393.

**COM/TEC 3053. Television Production II - 3 hours (Spring)**

Emphasis is given to writing and producing segments for television newscasts. Prerequisite: COM/TEC 2043. Course fee \$30.

**COM 3283. Persuasion: Theory and Practice – 3 hours (Fall)**

Theories and practice of persuasion and social influence. Prerequisite: COM 1103.

**COM/THR 3303. Oral Interpretation of Literature - 3 hours (Fall, odd years)**

Emphasis on theory and practice of communicating works of literature from the printed page. Prerequisite: COM 1103.

**COM 3313. Advanced Public Speaking - 3 hours (Spring)**

Advanced study of preparation and delivery of various speech types. Special attention to extemporaneous and manuscript speaking. Prerequisite: COM 1103.

**COM 3333. Intercultural Communication - 3 hours (Spring)**

This course will cover a wide variety of intercultural issues as they pertain to media, religion, business, politics, education, health care and interpersonal communication. A balanced emphasis will be placed on developing intercultural awareness and competence. Prerequisite: COM 1103.

**COM/TEC 3343. Media Production - 3 hours (Fall, On demand)**

Systematic study of audio in media to provide a broad theoretical and practical foundation in techniques related to radio, television, film and music production. Prerequisites: COM 2203.

**COM 3351. Intercollegiate Forensics and Debate - 1 hour (Fall, Spring)**

Participation in intercollegiate debate and forensics program. May be repeated; however, only 6 hours may count toward a major. Prerequisite: COM 1103.

**COM 3353. Organizational Communication - 3 hours (Spring)**

This course allows students to study how communication intersects with organizational life and culture on both the theoretical and practical levels. Special emphasis will be given to how organizations use communication to function and how students can communicate effectively within a wide array of organizational contexts. Prerequisite: COM 1103 *or* COM 2393.

**COM 3363. American Public Address - 3 hours (Spring, on demand)**

Historical and critical study of leading American speakers, their speeches and philosophies. Individual research and analysis. Prerequisite: COM 1103.

**COM 3373. Newspaper Writing and Editing - 3 hours (Spring)**

An emphasis upon the essentials of journalism writing. Special attention to principles and skills required to gather, write and edit newspaper stories. Lab fee \$10. Prerequisite: ENG 1113 and COM 1103.

**COM 3383. Small Group Communication - 3 hours (Fall)**

Systematic study and practice of principles of effective communication in groups. Exploration of dynamic variables and features unique to small group interaction. Public discussion formats are also explored. Prerequisite: COM 1103.

**COM/THR 4311. Senior Capstone - 1 hour (On demand)**

This course is designed as a comprehensive measure of the knowledge and skill students have acquired in their particular communication arts major. There will be two primary dimensions to the capstone course: 1) an opportunity for students to reflect on and undergo assessment of their body of work in their major; and 2) an opportunity to synthesize the knowledge of communication arts theory and practice in a final project performance. The portfolio and presentation will serve to demonstrate whether or not students have successfully completed the work required for their chosen degree. Since the department is diverse in emphases and specializations, each student will be given an opportunity to design a final project consistent with his/her interests and experience.

**COM 4413. Forensics - 3 hours (On demand)**

Laboratory practice and techniques for coaching contest speaking events: oratory, extemporaneous speaking, interpretation and after-dinner speaking. Prerequisite: COM 2223.

**COM 495(1-4). Intensive Studies - 1-4 hours****COM 496(1-3). Practicum - 1-3 hours****COM 497(1-3). Symposium - 1-3 hours****COM 498(1-6). Internship - 1-6 hours (Fall, Spring, Summer)**

(Limit of three (3) hours applied toward major.)

**COM 499(1-3). Independent Studies - 1-3 hours**

Advanced studies of specific topics arranged through consultation with the department chairperson.

**Methods of Teaching Speech in the Secondary Schools**

(See EDU 4552).

**COMPUTER AND INFORMATION SCIENCES****CIS 1033. Foundations of Computer Science - 3 hours (Fall)**

An introduction to key concepts in computer and how computation is related to all scientific fields. Topics include, but are not limited to, robotics, web design, software engineering, artificial intelligence, computer architecture, digital media storage, algorithm design and computability. Lab fee \$12. Prerequisite: MAT 1143 or concurrent enrollment.

**CIS 1103. Introduction to Computing - 3 hours (Fall, Spring, Winterfest, Summer)**

An introduction to the components of computer systems and their applications. Special emphasis is given to microcomputer systems and to the following common microcomputer applications: systems software, word processors, desktop publishing software, electronic spreadsheets and business graphics, database management systems and communication software. The course includes two lecture periods and one structured lab session per week. Lab fee \$12.

**CIS 1113. COBOL - 3 hours (On demand)**

Development of application programs using structured COBOL syntax and concepts. Emphasis on solutions of business problems. Lab fee \$12. Prerequisites: MAT 1143.

**CIS 1141. Introduction to Unix - 1 hour (Spring)**

This course provides an introduction to the UNIX operating system, basic utilities, file management and account management. Included are an overview of the login procedure, examination of the file and directory structure, the most commonly used utilities and the emacs text editor. The course is lab based. Lab fee \$4. Corequisite: CIS 1154.

**CIS 1144. Computer Science I - 4 hours (Fall, Spring)**

This course introduces the concepts of computer programming and problem solving and the associated ideas of algorithms and data structures. It is designed to provide the serious computer science student with basic skills and a solid foundation for further study. Includes an introduction to the Java programming language. Three lectures, one lab per week. Lab fee \$16. Prerequisite: MAT 1143 or concurrent enrollment.

**CIS 1154. Computer Science II - 4 hours (Spring)**

This course is a continuation of CIS 1144 with emphasis upon good programming methodology (software engineering). The data structures of linked lists, stacks, queues and trees are developed along with an introduction to file structures. Recursion, searching and sorting algorithms are analyzed for order as well as time and space efficiency. Parallel sorting and searching algorithms are introduced. Java is utilized for programming. Three lectures and one lab per week. Lab fee \$16. Prerequisites: CIS 1144 and MAT 1143. Corequisites: CIS 1141 and MAT 1173.

**CIS 2202. Unix - 2 hours (Spring, even years)**

This course investigates the Unix operating system, its facilities, capabilities and characteristics. Included are an overview of the operating system and its associated utilities, and the development of scripts for both the Bourne and C shells. The course also examines standard text editors, text formatters and task management tools. Lab fee \$8. Prerequisite: CIS 1141.

**CIS 2213. Systems Analysis and Design - 3 hours (Spring)**

Study of the phases of the object oriented analysis and design of a system project using current design tools. Lab fee \$12. Prerequisites: CIS 1113 or CIS 1123 or CIS 1033 or CIS 1144.

**CIS 2233 (PHY 3413). Machine Organization - 3 hours (Fall)**

A survey of the electronic and mechanical components of a computer, including processing units, memory and I/O devices. Also includes an introduction to assembly language programming. Lab fee \$12. Prerequisites: CIS 1154.

**CIS 2253. Web Engineering and Development - 3 hours (Fall)**

A study of the development techniques, protocols, and approaches to engineering web-based software systems. Topics include HTML, CSS, XML, CGI, PHP, Javascript, Ajax, DOM, client/server computing and Ruby on Rails. Issues related to design, maintainability, metrics, security, and performance are addressed. Lab fee \$12. Prerequisite: CIS 1154 with a grade of C or better.

**CIS 295(1-3). Special Topics - 1-3 hours (On demand)**

Selected topics of special interest in the field of computer science. May be repeated. Lab fee when appropriate. Prerequisite: 6 hours in computer science.

**CIS 3113. Interface and Interaction Design - 3 hours (Spring, odd years)**

A study of interaction theory and interface design for computing devices. Applied approaches are used to address issues in the development of mobile, web and other screen-based interfaces. Includes an introduction to Microsoft Visual Studio. Lab fee \$12. Prerequisite: CIS 1154 with a grade of C or better.

**CIS 3303. Systems Management - 3 hours (Fall, Spring)**

This course examines the issues and challenges involved in the management and implementation of information systems. It includes a foundational understanding of information technology, an overview of the correlation between business and information systems, and the challenges associated with the integration of multiple applications across a variety of platforms. Prerequisite: CIS 1103, CIS 1033.

**CIS 3313. Advanced Systems Analysis and Design - 3 hours (Fall, even years)**

This course presents an advanced study of analysis and design methodologies, techniques and tools. Topics include object-oriented methodologies, prototyping, client/server architectures, Joint Application Development, Rapid Application Development, human interface design and CASE. A project based approach is utilized. Lab fee \$12. Prerequisite CIS 2213.

**CIS 3323. Database Management Systems Design - 3 hours (Spring)**

A study of the concepts and structures necessary to design and implement a database system. Lab fee \$12. Prerequisites: CIS 2213.

**CIS 3333. Advanced Data Structures - 3 hours (Fall)**

This course presents an advanced study of abstract data types and data structures. Topics include lists, stacks, queues, graphs, binary search trees, AVL trees, B-trees, file structures and external sorting. A non-object oriented language such as C is utilized for programming assignments. Prerequisite: CIS 1154.

**CIS 3353. Survey of Programming Languages and Artificial Intelligence - 3 hours (Spring, odd years)**

Survey of programming languages including their structure, syntax, semantics, uses and design. Methods used for representing knowledge will be studied including algorithms for learning. Lab fee \$12. Prerequisite: CIS 3333.

**CIS 4001. Cooperative Education in Computer Science - 1 hour (Fall, Spring, Summer)**

Part-time, on-the-job experience in the areas of analysis, design, programming and maintenance. Credit will only be available for jobs with employers having a cooperative education agreement with the University. Course may be repeated up to six times. Credit hours may count toward the major only with the approval of the department chair and the cooperative education coordinator. Prerequisites: Acceptance into the Computer Science Cooperative Education Program, placement with an employer participating in the cooperative education program and permission of the cooperative education coordinator.

**CIS 4423. Operating Systems - 3 hours (Spring, even years)**

Introduction to the design and architecture of operating systems. Lab fee \$12. Prerequisite: CIS 2233.

**CIS/MAT 4433. Numerical Analysis - 3 hours (Fall, even years)**

A study of finite differences, numerical integration, matrix operations, numerical solutions of linear systems and differential equations and curve fitting. Lab fee \$12. Prerequisite: MAT 2263.

**CIS 4443. Networks - 3 hours (Spring)**

This course examines the physical and conceptual structures underlying local and wide area networks. Topics include serial communication, network topologies and architectures, transmission protocols and error and flow control mechanisms. Included in the course is the development of an application for interprocess communication independent of process location. Lab fee \$12. Prerequisites CIS 3333.

**CIS 4462. Applied Software Engineering I - 2 hours (Fall)**

A comprehensive software engineering project conducted by a team of students. Students are required to define, design and do the initial implementation of a practical, commercial quality software project. Lab fee \$8. Prerequisites: CIS 3333.

**CIS 4472. Applied Software Engineering II - 2 hours (Spring)**

A continuation of CIS 4462. Students are required to complete the project started in CIS 4462. Lab fee \$8. Prerequisite: CIS 4462.

**CIS 4503. Principles of Information Assurance - 3 hours**

This course provides an overarching model for information assurance for businesses, government agencies, and other enterprises needing to establish a comprehensive plan. All the components of security and how they relate are featured. Students will be guided through the construction of an effective security policy. Topics include asset identification, human factors, compliance with regulations, personnel security, risk assessment and ethical considerations are covered, as well as computer and network security tools and methods. This course studies the information operations that protect and defend information and information systems by ensuring their availability, integrity, authentication, confidentiality and non repudiation, including providing for the restoration of information systems by incorporating protections, detection and reaction capabilities.

**CIS 4513. Digital Forensics Principles and Practices - 3 hours**

This course provides the student a thorough background in the principles and practices employed in the field of digital forensics. The course provides students with a working foundation of the types of computer and electronic crimes being committed today, and identifies techniques used by offenders to compromise computer systems as well as vulnerabilities of computer and electronic systems. Practical applications of theory and academic study are included in outside of class laboratories. The goal of digital forensics is to explain the current state of a *digital artifact*, meaning a computer system, a storage medium (such as a hard disk or CD-ROM), an electronic document (e.g., an email message or JPEG image) or even a sequence of packets moving over a computer network. The explanation can be as straightforward as "what information is here?" and as detailed as "what is the sequence of events responsible for the present situation?"

**CIS 495(1-3). Intensive Studies - 1-3 hours (On demand)**

Selected topics of special interest in the computer science field. May be repeated. Lab fee when appropriate. Prerequisite: 18 hours in computer science.

**CIS 499(1-3). Independent Studies - 1-3 hours (On demand)**

Independent study of some problem or area in the major not covered in the organized courses. The study is under the direction of a faculty member in whose field of specialization the problem or area lies. Prerequisites: 3.00 GPA in major field and 60 hours completed.

## CRIMINAL JUSTICE

**CRJ 2313. Introduction to Criminal Justice - 3 hours (Spring)**

An analysis of the criminal justice system in the United States. An examination of crime and nature of law, aspects of criminal law and procedure, the courts and adjudication, the process of justice, and law enforcement.

**CRJ 2333. Judicial Process B 3 hours (Spring, even years)**

An overview of major structures and processes which underlie the American judicial system, focusing on history and development of prosecution, defense, judge and jury practices at both the state and federal levels. Prerequisite: CRJ 2313.

**CRJ 295(1-3). Special Topics - 1-3 hours (On demand)**

A study of critical issues in criminal justice that are not covered in other course offerings. Areas of study will vary from year to year. Students may elect to repeat the course.

**CRJ 3033. Serial Killers B 3 hours (Spring, odd years)**

A topical study of the factors common to serial murders, emphasizing the distinctions between myth and fact, the psychological profiles of such murderers, and the impact of such crimes on victims and society. Prerequisite: CRJ 2313.

**CRJ 3313. Law Enforcement Organization and Administration - 3 hours (Fall)**

An examination of the organization and administration of police departments and the role of law enforcement in relationship to the community and established political structure. Prerequisite: CRJ 2313.

**CRJ 3373. Juvenile Delinquency - 3 hours (Spring)**

An overview of the problem of juvenile delinquency and how it relates to society as a whole. Causation, prevention, control, and treatment will be examined. Prerequisite: CRJ 2313 or SOC 4033.

**CRJ 4313. Corrections in America - 3 hours (Fall)**

A systematic examination of the penal system and insight into its daily operations. Various theories of corrections will be explored. Prerequisite: CRJ 2313 or SOC 4033.

**CRJ 4333. Criminal Law - 3 hours (Spring)**

An overview of the general laws and crimes which effect law enforcement. Elements which are required to constitute a crime will be explored. Prerequisite: CRJ 2313.

**CRJ 4373. Police Methods and Procedures - 3 hours (Fall)**

Examination of law enforcement subjects including laws of search and seizure, laws of arrest, arrest procedures, criminal investigations, courtroom demeanor, rules of evidence, and patrol techniques. Prerequisites: CRJ 2313.

**CRJ 495(1-4). Intensive Studies - 1-4 hours (On demand)**

A study of critical issues in the field of criminal justice that are not covered in other course offerings. Areas of study will vary from year to year. Students may elect to repeat the course. Prerequisite: 12 hours criminal justice or consent of instructor.

**CRJ 498(3-6) Internship - 3-6 hours (On demand)**

The internship experience is designed to give the upper level criminal justice major supervised field experience in an area related to criminal justice. Prerequisites: Junior or senior standing, completed at least one-half of the major, minimum GPA of 3.0 and recommendation from a behavioral sciences faculty. Graded Pass/Fail.

## ECONOMICS

**ECO 2003. Literacy In Free Enterprise (LIFE) Economics - 3 hours (Fall, Spring, Winterfest)**

This General Education course will help the student develop an understanding of economic systems based on freedom. It will emphasize the importance of individual initiative and involvement in day-to-day community and business matters. Developing literacy about individual responsibility in personal and community decision making is a primary concern. NOTE: For non-business majors; does not meet College of Business and Computer Science requirements. Not available to students who have taken a previous economics course. Prerequisite: 24 hours completed.

**ECO 2023. Principles of Microeconomics - 3 hours (Fall)**

A study of economic principles with emphasis upon microeconomics. Includes a study of economics of the firm, consumer demand theory and current problems. Prerequisite: 24 hours completed.

**ECO 2033. Principles of Macroeconomics - 3 hours (Spring)**

Study of the basic principles of macroeconomics designed to give a broad understanding of the economy. Emphasis upon aggregate problems and issues considered important to the nation.

**ECO 2043 (HON 2003). Honors Literacy in Free Enterprise (LIFE) Economics - 3 hours (Fall)**

Honors LIFE Economics is the study of basic macro- and microeconomic concepts for non-business majors. This course will help the student develop an understanding of economic systems based on freedom. It will emphasize the importance of individual initiative and involvement in day-to-day community and business matters. Developing literacy about individual responsibility in personal and community decision-making is a primary concern. As an honors section, this class will explore the topic of free enterprise and economics through classroom discussion, enrichment activities and field trips. Prerequisite: Enrollment in the Dutille Honors Program or a minimum composite ACT of 26 or SAT equivalent.

**ECO 2061. SIFE Practicum - 1 hour (Fall, Spring)**

Students in Free Enterprise (SIFE) is a national collegiate educational organization. Students will design and implement projects to educate various segments of the public about the nature and benefits of our American economic system. This course is a hands-on learning experience which will help develop the participant's communication and management skills.

**ECO 295(1-4). Special Topics in Economics - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit.

**ECO 3023. Money and Banking - 3 hours (Fall)**

Study of history and present characteristics of money and banking structure in the United States. Emphasis upon monetary policy as it affects economic activity. Prerequisites: ECO 2023 and ECO 2033.

**ECO 3043. Managerial Economics - 3 hours (Spring)**

Combines the basic tools used by economists with techniques common in other business disciplines. This course deals with how decisions are made in order to achieve an organization's goals. It emphasizes use of quantitative techniques to solve production, marketing, management and financing problems. Prerequisites: ECO 2033 and BUS 2023.

**ECO 3053. International Economics/Finance - 3 hours (Fall, even years)**

A study of theory and policy related to international capital flows, exchange rates, and financial management. International economic institutions and policies are analyzed. Prerequisite: ECO 2023 and ECO 2033.

**ECO 3063. Capital and Credit Markets - 3 hours (On demand)**

The principles involved in the market structure of interest rates along with the source and uses of funds in the financial markets. Prerequisite: ECO 3023.

**ECO 4023. Special Topics in Economics/Finance - 3 hours (Winterfest)**

A study and discussion of the theory, recent history and current problems of economics and finance issues. Prerequisite: 60 hours completed.

**ECO 495(1-4). Intensive Studies in Economics - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit.

**ECO 499(1-3). Independent Study in Economics - 1-3 hours (On demand)**

Independent study of a topic not covered in the regular curriculum under the direction of a faculty member in whose field of specialization the area lies. Prerequisite: 3.0 GPA in major field, and 60 hours completed.

## EDUCATION

**NOTE: EDU 2113, EDU 2313 and Field Experience I (observing/assisting) are prerequisites for admittance to upper-level elementary, middle and secondary education courses. Either EDU 2113 or 2313 must be taken at Southwest Baptist University unless consent is obtained from the Director of Teacher Education. EDU 3333 must be taken at Southwest Baptist University. EDU 2343 and EDU 2353 are also prerequisites for admittance to upper-level elementary methods courses. Enrollment in upper-level education courses is limited to those students who have a cumulative GPA of 2.50, have a documented ACT or SAT score on file in the Office of Teacher Education (if applicable), have passed all sections of the C-BASE and have completed their file in the Office of Teacher Education. Only professional education courses transferred from Missouri junior colleges that are state approved and from senior colleges having state-approved teacher education programs can be used to meet certification requirements. Students must earn a grade of “C” or better in all upper-level EDU courses.**

### **EDU 2113. Educational Psychology - 3 hours (Fall, Spring)**

Study of social and behavioral theory, including the nature of educational psychology, measurement, personality, the classroom as a social system, learning and instruction. Prerequisites: ENG 1113 and 2213, or ENG 1123. Students should be enrolled concurrently in Field Experience Level 1 or Field Experience Level I may be taken with EDU 2313, Foundations of Education.

### **EDU 2121. Field Experience Level 1: (observing/assisting) in Elementary School, Grades 1-6 - 1 hour (Fall, Winterfest, Spring)**

Thirty clock hours of supervised practical experience in the classroom at the elementary school level. Prerequisites: EDU 2113 or EDU 2313 (or either may be taken concurrently), 2.0 GPA and completion of the teacher education file. Permission from the Coordinator of Clinical Experiences must be obtained, and student must pre-enroll. Course fee \$10. *Pass/Fail credit is given.*

### **EDU 2131. Field Experience Level 1: (observing/assisting) in Middle/Jr. High - 1 hour (Fall, Winterfest, Spring)**

Thirty clock hours of supervised practical experience in the classroom at the middle/junior high level. Prerequisites: EDU 2113 or EDU 2313 (or either may be taken concurrently), 2.00 GPA and completion of the teacher education file. Permission from the Coordinator of Clinical Experiences must be obtained, and student must pre-enroll. Course fee \$10. *Pass/Fail credit is given.*

### **EDU 2141. Field Experience Level 1: (observing/assisting) in Secondary 9-12 or K-12 School - 1 hour (Fall, Winterfest, Spring)**

Thirty clock hours of supervised practical experience in the classroom at the secondary level. Prerequisites: EDU 2113 or EDU 2313 (or either may be taken concurrently), 2.00 GPA and completion of the teacher education file. Permission from the Coordinator of Clinical Experiences must be obtained, and student must pre-enroll. Course fee \$10. *Pass/Fail credit is given.*

### **EDU 2232. Introduction to Early Childhood Education - 2 hours (Fall)**

This course is designed to provide an introduction to the study of early childhood education birth through eight years of age (grade 3). It includes a historical perspective, goals of early childhood education, the role of play in early childhood development, developmentally appropriate programs and curriculum models. Concurrent enrollment in EDU 2381 or EDU 2391 is required. Prerequisites: ENG 1113, 2213, or ENG 1123 and 2.0 GPA.

### **EDU 2243. Health, Safety and Nutrition for the Young Child - 3 hours (Spring)**

Provides information about current concepts in the fields of health, safety and nutrition and their relationship to the young child; includes application of principles of health, safety and nutrition for young children. Prerequisites: EDU 2113 or EDU 2313 or concurrent enrollment and 2.00 GPA.

### **EDU 2313. Foundations of Education - 3 hours (Fall, Spring)**

The course presents major issues of schooling and education basic to professional preparation. Areas included are philosophy, history of American education, administration, governance, finance, legal aspects, social issues, use of technology in instruction, and current topics in the field. Prerequisites: ENG 1113 and 2213, or ENG 1123 and 2.0 GPA. Students should be enrolled concurrently in Field Experience 1 or Field Experience 1 may be taken with EDU 2113, Educational Psychology.

### **EDU 2332. Teaching the Young Child - 2 hours (Spring)**

This course provides a continuation of the study of early childhood education B birth through eight years of age (grade 3). It includes a study of how to establish and maintain a safe, healthy learning environment and how to set up a well-run, purposeful, developmentally appropriate program that is responsive to participant needs. Additionally, there is a focus on how to advance the physical, intellectual, social and emotional needs of young children with an emphasis on the application of brain research in the preschool and kindergarten classroom. Concurrent enrollment in EDU 2381 or EDU 2391 is required. Prerequisites: ENG 1113, 2213, or ENT 1123 and 2.0 GPA.

**EDU 2343. Emergent Literacy - 3 hours (Fall, Spring)**

This course develops an understanding of communication arts instruction with a particular focus on emergent language and literacy development. It is designed as a foundational course to additional reading methods courses and provides an understanding of how young children learn oral and written language, of the learning environment necessary for this learning to develop naturally, and the cultural and societal influences upon literacy development. Prerequisites: EDU 2113, 2313 or concurrent enrollment, 2.00 GPA, and 30 hours completed. Lamination fee \$5.

**EDU 2353. Children's Literature - 3 hours (Fall, Spring)**

This course presents an overview of the various genres of children's literature with demonstrations of teaching and integrating literature in the early childhood through middle school classrooms. Prerequisites: EDU 2113, 2313 or concurrent enrollment, 2.00 GPA, and 30 hours completed. Lamination fee \$5.

**EDU 2381. Practicum - Infant/Toddler - 1 hour (Fall, Spring)**

Provides 30 clock hours of experience with infants and toddlers. Students will experience a variety of infant/toddler facilities. Students will apply developmentally appropriate practices for young children. Lab fee \$18. Concurrent enrollment in EDU 2232 or EDU 2332 and 2.00 GPA are required.

**EDU 2391. Practicum - Preschool/Kindergarten - 1 hour (Fall, Spring)**

Provides 30 clock hours of clinical experience and student participation in a PreK and Kindergarten setting. Involves planning and teaching daily activities and a weekly unit that incorporates the use of literature, art, science, music, mathematics, language and motor skills which are developmentally appropriate for the preschool child. Lab fee \$18. Concurrent enrollment in EDU 2232 or EDU 2332 and 2.00 GPA are required.

**EDU 2463. Foundations of the Middle School - 3 hours (Fall)**

A focus on the historical and philosophical foundations of the traditional junior high and subsequent middle school movement. This course will provide an examination of middle level practices and organizational components, with an emphasis on connection of these practices with research that is both supportive of their implementation and based on the needs of young adolescents. Prerequisites: EDU 2113 and 2313 or concurrent enrollment and 2.00 GPA.

**EDU 2483. School, Home, and Community Partnerships - 3 hours (Spring)**

This course exposes students to the history, current trends and issues of parent and community involvement in the schools. Utilizes materials, techniques and resources for the improvement of home, school and community partnerships in the education of children. Prerequisites: EDU 2113, 2313 or concurrent enrollment and 2.00 GPA.

**EDU 2512. Teaching Reading in the Middle School - 2 hours (Fall, even years)**

Examines methods and materials currently being used to teach reading in today's middle school classroom. Prerequisites: Sophomore standing, completion of English composition courses, EDU 2113 and EDU 2313 or concurrent enrollment in EDU 2113 and EDU 2313 and 2.00 GPA.

**EDU 2823. Technology for Educators - 3 hours (Fall, Winterfest, Spring)**

Develops teachers who are able to apply technology skills and strategies in a variety of personal and professional functions including the development of an electronic portfolio, to effectively use media to maximize student learning, and to use a wide variety of media and technological systems in teaching and evaluation of student learning. Because the student teaching portfolio is developed in this class, this course is designed for elementary education students in their sophomore year and for middle and secondary education students during their junior or senior years before student teaching. Prerequisites: CIS 1103 or 1033. Prerequisites: EDU 2113, 2313 or concurrent enrollment and 2.00 GPA. Lab fee \$20.

**EDU 295(1-3). Special Topics in Education - 1-3 hours (On demand)**

An intensified approach to selected education topics or subject matter not regularly offered by the department.

**EDU 3002. Teaching Social Sciences in Early Childhood and Elementary Schools I - 2 hours (Fall, Spring)**

This course is designed for interactive, integrated learning of methods, techniques, and skills for engaging early childhood and elementary students in social studies concepts including history, civics, social and cultural relationships. Prerequisites: EDU 2113, 2313, 2343, 2353. Lamination fee \$5.

**EDU 3022. Teaching Social Sciences in Early Childhood and Elementary Schools II - 2 hours (Fall, Spring)**

This course is designed for interactive, integrated learning of methods, techniques, and skills for engaging early childhood and elementary students in social studies concepts including geography, economics, and civic education. Prerequisites: EDU 2113, 2313, 2343, 2353. Lamination fee \$5.

**EDU/PSY 3053. Child Development - 3 hours (Fall, Spring)**

A study of the operation of normal psychological and developmental processes in the lives of children from birth to adolescence. Prerequisite: PSY 1013 or EDU 2113.

**EDU 3114. Teaching Reading/Language Arts in Early Childhood and Elementary Education I - 4 hours (Fall, Spring)**

Students examine the teaching of the language arts components (reading, writing, speaking, and listening) as well as "Literacy's Big 5." Students will also explore approaches and strategies that are appropriate for use in facilitating developmental reading in today's early childhood and elementary classrooms. Specifically, topics include handwriting, the reading and writing process, phonics, phonemic awareness, language arts programs, and differentiated instruction. Prerequisites: EDU 2113, 2313, 2343, 2353.

**EDU 3124. Teaching Reading/Language Arts in Early Childhood and Elementary Education II - 4 hours (Fall, Spring)**

Students apply the principles of integrated language arts teaching throughout the curriculum. Pre-service teachers will plan instruction and prepare materials to be used to foster developmental and functional reading skills that enable students to use reading as a tool to learn. Pre-service teachers will also assess and evaluate students with diverse needs in the regular classroom. Specific topics to be covered include multiple intelligences, vocabulary, fluency, spelling, grammar, comprehension, and listening/speaking. Prerequisites: EDU 2113, 2313, 2343, 2353.

**EDU/HPE 3133. Teaching Physical Education in the Elementary School - 3 hours (Spring)**

Teaching methods; selection of activities; program planning; emphasis on development of a progressive curriculum.

**EDU 3143. Integrating Art, Music and Movement into the Early Childhood and Elementary School - 3 hours (Fall, Spring)**

This course is designed to enable the student to integrate literature, art, music and physical education/movement into the early childhood and elementary classroom. Prerequisites: EDU 2113, 2313.

**EDU 3162. Teaching Integrated Math in Early Childhood and Elementary Education - 2 hours (Fall, Spring)**

Analyzes methods of teaching mathematics in early childhood and elementary classrooms and integrating mathematics in other content areas in ways that are developmentally appropriate and are reflective of the NCTM standards. Methodology includes developing investigative lesson plans, using technology and learning centers in the math classroom, evaluating mathematics textbooks, formulating performance goals and objectives, and assessing the learning of mathematics. Prerequisites: EDU 2113, 2313, two college level math courses above MAT 0123.

**EDU 3182. Teaching Integrated Science in Early Childhood and Elementary Education - 2 hours (Fall, Spring)**

Analyzes methods of teaching science in the early childhood and elementary schools using process inquiry skills, integrating science with other content areas, and teaching science in ways that are developmentally appropriate and are reflective of the National Science Education Standards and the Missouri Grade-level Expectations. Prerequisites: EDU 2113, 2313, 2343, 2353, two science courses - a biological science with a lab and a physical science with a lab.

**EDU 3212. Screening, Diagnosis and Prescription in Early Childhood Education - 2 hours (Fall)**

A study of methods, procedures and instruments used in early childhood for screening and diagnosing individual children in order to prescribe specific learning activities. Prerequisites: EDU 2113, 2313, 2332, 2343, 2381, 2391. Course fee \$10.

**EDU/ENG 3303. American Literature for Young Adults - 3 hours (Fall)**

The study of young adult and ethnic American literature and of methods for teaching this literature in the middle and secondary school classrooms. Designed for those seeking teacher certification.

**EDU 3311. Field Experience Level 2 in Lower Elementary, Grades 1-3 - 1 hour (Fall, Spring)**

Minimum of thirty clock hours of supervised practical experience in the classroom at the early childhood level taken concurrently with methods courses. Prerequisites: EDU 2113, 2313, 2391 or 2121. Permission from the Coordinator of Clinical Experiences must be obtained and student must pre-enroll. Course fee \$10. *Pass/Fail credit is given.*

**EDU 3321. Field Experience 2 in Upper Elementary, Grades 4-6 - 1 hour (Fall, Spring)**

Minimum of thirty clock hours of supervised practical experience in the classroom at the elementary school level taken concurrently with methods courses. Prerequisites: EDU 2113, 2313, 2391 or 2121. Permission from the Coordinator of Clinical Experiences must be obtained and student must pre-enroll. Course fee \$10. *Pass/Fail credit is given.*

**EDU 3331. Field Experience Level 2 in Middle/Jr. High School (NOT SECONDARY) - 1 hour (Spring)**

Minimum of thirty clock hours of supervised practical experience in the classroom at the middle/junior high level taken concurrently with EDU 4493. Prerequisites: EDU 2113, 2313. Permission from the Coordinator of Clinical Experiences must be obtained, and student must pre-enroll. Course fee \$10. *Pass/Fail credit is given.*

**EDU 3333. Principles and Methods of Secondary Instruction - (Fall, Spring)**

This course will emphasize examining and implementing teaching methods, developing critical thinking skills, analyzing learners and the learning process, refining communication skills, and constructing curriculum. EDU 3333 **must** be taken at SBU. **A Field Experience Level 2 (EDU 3341) must be taken concurrently.** Prerequisites: EDU 2113, 2313, and 2141.

**EDU 3341. Field Experience Level 2 in Secondary School - 1 hour (Fall, Spring)**

Minimum of thirty clock hours of supervised practical experience in the classroom at the secondary school level. Must be taken concurrently with EDU 3333. Prerequisites: EDU 2113, 2313. Permission from the Coordinator of Clinical Experiences must be obtained and student must pre-enroll. Course fee \$10. *Pass/Fail credit is given.*

**EDU 3613. Teaching Reading in the Content Areas - 3 hours (Fall, Spring)**

Designed to assist middle school/junior high and/or secondary teachers in the use of functional reading strategies which enable students to use reading as a tool to learn in various content areas. Prerequisites: EDU 2113, 2313.

**EDU/MUS 3813. Elementary Music Education - 3 hours (Spring)**

Study of administrative teaching techniques and survey of materials for teaching vocal and instrumental music in early childhood and elementary grades. Examination of musical concepts and skills appropriate at each age or learning level. Training in use of piano, recorder, autoharp and fretted instruments. Prerequisites: EDU 2113, 2313, MUS 1621 and 1623 (music majors and minors only).

**EDU 3823. Behavior and Classroom Management in Early Childhood and Elementary Education - 3 hours (Fall, Spring)**

The content of this class is an exploration of the dynamics of behavior and management that make a community of learners in a classroom. Emotional, social, and physical aspects will be considered in making an environment conducive to teaching and learning. Management of student behavior, discipline approaches, and the total make-up of the classroom will be studied, discussed, researched, and observed in early childhood and elementary class settings. Prerequisites: EDU 2113, 2313, 2343, 2353.

**EDU 3833. Behavior and Classroom Management - Secondary - 3 hours (Fall, Spring)**

An examination of current and past principles of classroom management will be examined in light of biblical, theoretical, and philosophical assumptions concerning humankind. Modern theories of discipline will be evaluated as to effectiveness and will be contrasted with historical views of schooling and education. It is intended that students will be challenged to contemplate methods of instructing and modeling behavior (proactively) instead of simply responding (reactively) to inappropriate student actions. Wisdom and virtue, the cornerstones of any education, will be discussed as goals for students versus simply controlling and conforming behavior. Prerequisites: EDU 2113, 2313.

**EDU 4112. Teaching Writing - 2 hours (Block-Fall, odd years)**

This course is designed to stress the teacher's role in the writing process and introduce writing activities that may be implemented in the classroom for different areas of the curriculum. A variety of instructional approaches to teaching middle school students to write will be addressed. The course will focus on writing as process and product. Prerequisites: EDU 2113, 2313.

**EDU 4473. Psychology of the Middle School Student - 3 hours (Fall)**

This course offers a broad overview of the history of young adolescent psychology, its advocates, researchers and its implications for middle level educational practices. Prerequisites: EDU 2113, 2313, 2463.

**EDU 4493. Middle School Curriculum - 3 hours (Spring)**

This course offers an in-depth study of curriculum development and instructional strategies targeting the young adolescent. As a result of this course, students will develop pedagogical practices that meet the vast physical, emotional, social, intellectual and affective developmental needs of young adolescents. **Middle school majors must take Field Experience Level 2 (EDU 3331) concurrently.** Prerequisites: EDU 2113, 2313, 2463.

**EDU 4512. Methods of Teaching Art, K-12 - 2 hours (Fall)**

Understanding motivation, materials and techniques in school art programs. Prerequisites: EDU 2113, 2313.

**EDU 4513. Methods of Teaching Mathematics in the Middle and Secondary Schools - 3 hours (Spring)**

Theory and application of current practices in teaching mathematics in middle and secondary schools. Prerequisites: EDU 2113, 2313.

**EDU 4522. Methods of Teaching Science in the Middle and Secondary Schools - 2 hours (Fall)**

Course will provide practical methods for the prospective teacher to use for the instruction of middle and secondary school students in such areas as laboratory safety, investigative and questioning skills. Course activities will include inquiry teaching, use of demonstrations in teaching, budgeting and supply ordering, science fairs and projects, and the use of the computer in the science classroom. Prerequisites: EDU 2113, 2313.

**EDU/HPE 4533. Methods of Teaching Health and Physical Education, 5-12 - 3 hours (Block-Fall)**

Teaching methods; selection of activities; program planning; emphasis on development of a progressive curriculum (restricted to health and physical education majors and minors.) Prerequisites: EDU 2113, 2313.

**EDU 4542. Methods of Teaching Social Science in the Middle and Secondary Schools - 2 hours (Spring)**

Exploration of basic concepts within each of the social sciences and possible teaching methods. Prerequisites: EDU 2113, 2313.

**EDU/ENG 4543. Methods of Teaching Writing in the Secondary School - 3 hours (Spring)**

Theory and application in the teaching of writing and grammar in secondary schools with emphasis on the writing process. A requirement for secondary English majors. Prerequisites: EDU 2113, 2313.

**EDU 4552. Methods of Teaching Speech in the Middle and Secondary Schools - 2 hours (On sufficient demand)**

Emphasis on principles, techniques and problems that are unique in teaching speech. Unit and course plans are developed for all areas of speech. Attention is given to directing forensic and dramatic activities. Prerequisites: EDU 2113, 2313.

**EDU 4563. Methods of Teaching Foreign Language - 3 hours (On sufficient demand)**

Study of methods of teaching modern languages in public school. Prerequisites: EDU 2113, 2313.

**EDU/MUS 4573. Methods of Teaching Vocal Music in the Middle and Secondary Schools - 3 hours (Fall, odd years)**

Study of philosophy of music education, administrative and teaching techniques and materials for teaching vocal music in the middle and secondary schools. Music majors and minors only. Prerequisites: EDU 2113, 2313, MUS 1621, MUS 1623.

**EDU/MUS 4583. Methods of Teaching Instrumental Music in the Middle and Secondary Schools - 3 hours (Fall, even years)**

Study of philosophy of music education, administrative and teaching techniques and materials for teaching instrumental music in middle and secondary schools. Music majors and minors only. Prerequisites: EDU 2113, 2313, MUS 1621, MUS 1623.

**EDU 4593. Spiritual Issues in Public Schools B 3 hours (Winterfest, Spring)**

This course is designed to help teachers plan curriculum in ways that stay true to one's faith and helps teach Christian values in a multicultural community. Students will review which laws determine the religious rights of students and teachers in public schools and how to apply these laws to real situations in the classroom.

**EDU 4691. Student Teaching Seminar - 1 hour (Fall, Spring)**

This course is designed as a seminar/discussion section to accompany the student teaching clinical experiences of EDU 4929, 4939, 4949 and 4959. Students will refine their skills as reflective practitioners through a variety of experiences that focus on contemporary problems and issues in the field of education.

**EDU 4832. Assessment and Evaluation of Learners - 2 hours (Block-Fall, Spring)**

Study of the principles of assessment from organizing the classroom as a social setting, to planning and conducting instruction based on sound objectives, to the formal assessment of student learning, to grading students and finally to interpreting standardized tests and statewide assessments. Prerequisites: EDU 2113, 2313. Must be taken as part of the professional block semester.

**EDU 4842. Teaching Diverse Learners - 2 hours (Block-Fall, Spring)**

Mentally, emotionally and physically exceptional children are studied. Diagnosis and methods of teaching gifted, mentally retarded, visual and sound-impaired, learning disabled and physically handicapped children and children with communication and behavior problems are included. Prerequisites: EDU 2113, 2313. Must be taken as part of the professional block semester.

**EDU 4929. Student Teaching in the Elementary School - 10 hours (Block-Fall, Spring) - for Elementary Majors**

Observation, participation and directed teaching in public schools. Prerequisites: Unconditional admittance to Teacher Education Program. Must be taken as part of the professional block semester. Student Teaching fee \$300.

**EDU 4939. Student Teaching in the Middle School - 10 hours (Block-Fall, Spring) for Stand Alone Middle School Majors**

Observation, participation and directed teaching in public schools. Prerequisites: Unconditional admittance to Teacher Education Program. Must be taken as part of the professional block semester. Student Teaching fee \$300.

**EDU 4949. Student Teaching in the Secondary School - 10 hours (Block-Fall, Spring) for Secondary Certification**

Observation, participation and directed teaching in public schools. Prerequisites: Unconditional admittance to Teacher Education Program. Must be taken as part of the professional block semester. Student Teaching fee \$300.

**EDU 4959. Student Teaching in the K-12 School System - 10 hours (Block-Fall, Spring) for Art K-12, Music K-12, and Physical Education K-12 Majors**

Observation, participation and directed teaching in public schools. Prerequisites: Unconditional admittance to Teacher Education Program. Must be taken as part of the professional block semester. Student Teaching fee \$300.

**EDU 495(1-3). Intensive Studies in Education - 1-3 hours (On demand)**

An intensified approach to selected education topics or subject matter not regularly offered by the department. Prerequisites: EDU 2113, 2313.

**EDU 499(1-3) Independent Studies (Elementary Majors) - 1-3 hours (On demand)**

Advanced studies of specific topics arranged by department chair. Prerequisites: EDU 2113, 2313.

**ENGLISH****ENG 0103. English Skills - 3 hours (Fall, Spring)**

Introduction to and practice in formal English with emphasis upon basic sentence and paragraph skills. This course does not count toward the 128 hours required for graduation. Students placed in this course due to their ACT/SAT scores may bypass ENG 0103 and take ENG 1113 on the evidence of writing skills demonstrated on a departmental exam.

**ENG 1003. English as a Second Language - 3 hours (On demand)**

First course for the student whose native tongue is not English, unless the student presents transferred credit for ENG 1113.

**ENG 1113. English Composition I - 3 hours (Fall, Spring)**

Expository writing based on a study of essays. In addition to the writing of essays, a student will write a research paper. Prerequisite: An English score of at least 18 on the ACT examination in English or at least a C grade in English 0103.

**ENG/HON 1123. Honors Composition - 3 hours (Fall, On demand in Spring)**

An honors-level course in expository writing based on a study of imaginative literature. The course fosters the development of writing and research skills. Fee \$2. Prerequisite: An English score of at least 28 on the ACT examination. A grade of C or above in this course and the payment of a transcription fee permit the student to receive credit for ENG 1113 also.

**ENG 2213. English Composition II - 3 hours (Fall, Spring)**

Expository writing based on a study of imaginative literature. The course fosters the development of writing and research skills. Fee \$2. Prerequisite: ENG 1113.

**ENG 2312. Survey of World Literature - 2 hours (Fall, Spring)**

Masterpieces of world literature, from antiquity to the twentieth century. Prerequisite: Completion of the general education requirement in composition.

**ENG 295(1-4). Special Topics - 1-4 hours**

The study of selected language and literary topics. Prerequisite: Completion of the general education requirement in composition.

**ENG/WRT 3013. Writing Poetry - 3 hours (Spring, odd years)**

A workshop in the writing of original poetry, based on a study of poetic characteristics and genres. Prerequisite: Completion of the general education requirement in composition.

**ENG 3233. Medieval and Renaissance English Literature - 3 hours (Spring, odd years)**

Literature of England from Beowulf to Shakespeare. Prerequisite: Completion of the general education requirement in composition.

**ENG 3243. Seventeenth and Eighteenth-Century English Literature - 3 hours (Spring, even years)**

Literature of England from Donne to Boswell. Prerequisite: Completion of the general education requirement in composition.

**ENG/EDU 3303. American Literature for Young Adults - 3 hours (Fall)**

The study of young adult and ethnic American literature and of methods for teaching this literature in the middle and secondary school classroom. Designed for those seeking teacher certification. Prerequisite: Completion of the general education requirement in composition.

**ENG 3313. American Literature I - 3 hours (Fall)**

Literature of America from Colonial Period to Romantic Period. Prerequisite: Completion of the general education requirement in composition.

**ENG 3323. American Literature II - 3 hours (Spring)**

Literature of America from Age of Realism to present. Prerequisite: Completion of the general education requirement in composition.

**ENG 3333. The Romantic Period - 3 hours (Fall, even years)**

Literature of England from Blake to Keats. Prerequisite: Completion of the general education requirement in composition.

**ENG 3343. The Victorian Period - 3 hours (Spring, odd years)**

Literature of England from Tennyson to Hopkins. Prerequisite: Completion of the general education requirement in composition.

**ENG/WRT 3353. Advanced Composition - 3 hours (Fall, Spring)**

Advanced expository writing, based on a study of contemporary prose. Prerequisite: Completion of the general education requirement in composition.

**ENG 3363. History of the English Language - 3 hours (Spring, even years)**

The development of the English language from its beginning to the present. Prerequisite: Completion of the general education requirement in composition.

**ENG 3373. Structure of the English Language - 3 hours (Fall)**

Detailed study of current English sounds, grammar and usage. Prerequisite: Completion of the general education requirement in composition.

**ENG/WRT 4003. Technical Writing - 3 hours (Fall, even years)**

The application of rhetorical principles to the writing of investigative and descriptive reports on scientific and technological subjects. Prerequisite: Completion of the general education requirement in composition.

**ENG/WRT 4013. Writing Short Fiction - 3 hours (Fall, odd years)**

A workshop in short fiction writing utilizing readings from varying fiction genres and peer/instructor feedback. Prerequisite: Completion of the general education requirement in composition.

**ENG/THR 4413. Shakespeare - 3 hours (Spring, odd years)**

Tragedies, histories and comedies of Shakespeare. Prerequisite: Completion of the general education requirement in composition.

**ENG 4433. Twentieth-Century English Literature - 3 hours (Fall, even years)**

Literature of England from Hardy to Fowles. Prerequisite: Completion of the general education requirement in composition.

**ENG 4453. Milton - 3 hours (Spring, even years)**

Life and works of Milton. Prerequisite: Completion of the general education requirement in composition.

**ENG 4463. Contemporary Poetry - 3 hours (Fall, odd years)**

Poetry of the modern world. Prerequisite: Completion of the general education requirement in composition.

**ENG 4483. The American Novel - 3 hours (Spring, even years)**

Representative American novels from Colonial Period to present. Prerequisite: Completion of the general education requirement in composition.

**ENG/EDU 4543. Methods of Teaching Writing in the Secondary Schools - 3 hours (Spring)**

Theory and application in the teaching of writing and grammar in secondary schools with emphasis on the writing process. A requirement for English majors pursuing secondary certification. Prerequisites: EDU 2113, 2313, and completion of the general education requirement in composition.

**ENG 495(1-4). Intensive Studies - 1-4 hours (On demand)**

The study of selected language and literary topics. Prerequisite: Completion of the general education requirement in composition.

**ENG 499(1-3). Independent Studies - 1-3 hours (On demand)**

Advanced studies of specific topics. Prerequisite: Completion of the general education requirement in composition.

## EXERCISE SCIENCE

**ESC 1013—Introduction to Exercise Science - 3 hours (Spring)**

A course designed to help students develop perspectives in the field of exercise science. Students will examine the different areas of study within the field, kinds of programs, qualifications needed to enter the field, career opportunities, and issues facing exercise science professionals.

**ESC 4001—Exercise Science Capstone - 1 hour (Fall, Spring)**

Exploration of exercise science knowledge and issues facing professionals in the field. Students will prepare to take the ACSM Health Fitness Instructors Exam or the NSCA Certified Strength and Conditioning Specialist Exam.

Prerequisites: Limited to students enrolled in final semester of senior year. Course fee \$95.

**ESC 4043—Exercise Science Practicum - 3 hours (Spring)**

Credit given for hands-on experience gained through exercise prescription and training of selected volunteer clients.

Prerequisite: 64 hours completed and dual enrollment in ESC 4053 Biomechanical Analysis.

**ESC 4053—Biomechanical Analysis - 3 hours (Spring)**

A course to acquaint students with various evaluation methods in exercise science and exercise physiology. Practice is given to administering tests and interpreting results with appropriate statistical procedures. Prerequisite: 64 hours completed, PSY/SOC 3243 Elementary Statistics and dual enrollment in ESC 4043 Exercise Science Practicum. Course fee \$25.

**ESC 4986—Exercise Science Internship - 6 hours (Fall, Spring, Summer)**

A fulltime residency for on-the-job training under the supervision of an exercise science professional. Includes observation, supervision, planning, instruction, direct leadership and evaluation. Minimum requirement-240 hours. Prerequisites: A minimum grade of “C” in all exercise science courses; a minimum overall GPA of 2.00 in all course work taken at SBU prior to application for internship and prior to internship itself; restricted to Exercise Science majors of senior standing; advanced application no later than September or February of preceding semester. Course fee \$100.

**FINANCE****FIN 295(1-4). Special Topics in Finance - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit.

**FIN 3003. Personal Financial Planning - 3 hours (Spring)**

Topics to be studied include budgeting, banking, major consumer purchases (including lease vs. buy decisions), home ownership, all types of personal insurance (from liability to disability), investments, estate planning and taxes.

**FIN 3053. Business Finance - 3 hours (Fall)**

Study of the principles of financing short-term and long-term capital needs of business firms in keeping with an objective of maximizing the firm's value to its shareholders, i.e., stock price. Special attention given to Capital Asset Pricing Model, the various capital budget theories and computer applications. Prerequisites: ACC 2043, BUS 2023.

**FIN 4023. Special Topics in Finance/Economics - 3 hours (Winterfest)**

A study discussion of the theory, recent history and current problems of economics and finance issues. Prerequisite: 60 hours completed.

**FIN 4033. Introduction to Derivatives - (Spring, odd years)**

This course provides the student with a working knowledge of options, forwards, futures, and swap markets. The course provides the student with techniques that enable him or her to discuss, analyze, value, and use derivative securities to manage both financial and commodity price risk. Hedging with derivative securities is emphasized. Considerable attention is paid to the role of options and option pricing models in corporate finance. Prerequisite: BUS 2023

**FIN 4053. Investments - 3 hours (Spring, even years)**

A study of the entire field of investments with major emphasis on security valuation theories, security markets, portfolio management and computer applications in the investment decision making process. Lab fee \$12. Prerequisite: FIN 3053.

**FIN 4063. Commercial Banking - (On demand)**

An examination of the operation of commercial banks, trust companies, and other credit institutions. Special attention will be given to recent bank legislation, bank valuation, performance, strategic planning, asset-liability management, risk management, credit risk, money management services, and off-balance sheet risks. Trends such as consolidation, internationalization, and product diversification will also be addressed. At its core the class will use banks as the model but other financial service providers such as savings and loans and brokerage firms will be covered as well. Prerequisite: ACC 2043.

**FIN 4073. Insurance and Risk Management - (Fall, odd years)**

An introduction to the use of insurance as a risk management tool. Specific attention will be given to the structure of the insurance market, current issues regarding regulation and reform of insurance, and the use of insurance by firms and individuals to appropriately manage risk. Prerequisite: BUS 2023.

**FIN 495(1-4). Intensive Studies in Finance - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit.

**FIN 499(1-3). Independent Study in Finance - 1-3 hours (On demand)**

Independent study of some problem or area in the major not covered in the organized courses. The study is under the direction of a faculty member in whose field of specialization the problem or area lies. Prerequisites: 3.00 GPA in major field, and 60 hours completed.

**FINE ARTS****FAR 1003. Introduction to Fine Arts - 3 hours (Fall, Spring)**

A course designed to help the general education student to develop a basic understanding of music and art of various cultures and historical periods. Course fee \$30.

**FAR/ART 1013. Introduction to Art - 3 hours (Spring)**

An introduction to art from all historical periods to help the non-art major develop an understanding of the role of art in the life of man and the value of art to the individual. Required for art majors. Course fee \$30.

**FAR 1023. Introduction to Music - 3 hours (Fall, Spring)**

A course to help the non-music major develop a basic understanding of music from historical periods of the western world and gain exposure to music of various non-western cultures. Course fee \$30.

**FAR/THR 1033. Introduction to Theatre - 3 hours (Fall)**

A study of the history and literature of the theatre with introductory participation in the areas of acting and stagecraft. Emphasis on reading and attending plays. Course fee \$30.

## FRENCH

### **FRE 1114. Elementary French I - 4 hours (On demand in Fall)**

Pronunciation, conversation, reading, composition and basic grammar.

### **FRE 1124. Elementary French II - 4 hours (On demand in Spring)**

Continuation of FRE 1114. Prerequisite: FRE 1114 or satisfactory placement scores or one year of high school French.

## GEOGRAPHY

### **GEO 1103. Geography - 3 hours (Fall, Spring)**

Basic survey introducing the various elements of geographical study.

## GERMAN

### **GER 1114. Elementary German I - 4 hours (On demand in Fall)**

Pronunciation, conversation, reading, composition and basic grammar.

### **GER 1124. Elementary German II - 4 hours (On demand in Spring)**

Continuation of GER 1114. Prerequisite: GER 1114 or satisfactory placement scores or one year of high school German.

## GREEK

### **GRE 2014. Elementary Greek I - 4 hours (Fall, odd years)**

Study of the basic elements of New Testament Greek, stressing vocabulary, conjugation, declension, composition and translation. Prerequisites: BIB 1013, 1023.

### **GRE 2024. Elementary Greek II - 4 hours (Spring, even years)**

Continuation of GRE 2014. Oral and written exercises continued; introduction to Greek New Testament through passages which are relatively uncomplicated. Prerequisite: GRE 2014.

### **GRE 3013. Intermediate Greek - 3 hours (Fall, even years)**

Review of grammar principles. Stress on translation and interpretive significance of grammatical constructions in the Greek New Testament. Prerequisite: GRE 2024.

### **GRE 3023. Advanced Greek - 3 hours (Spring, odd years)**

Extensive reading in the Greek New Testament with emphasis upon syntax and careful, accurate exegesis. Prerequisite: GRE 3013.

### **GRE 495(1-3). Intensive Studies in Greek - 1-3 hours**

Exegetical studies in selected books or passages of the Greek New Testament. The course may be taken more than once. Prerequisite: GRE 3023.

## HEALTH and PHYSICAL EDUCATION

### **HPE 1001. Bowling - 1 hour (On demand)**

Study and practice in the fundamental skills of bowling. Course fee \$45.

### **HPE 1012. General Activities I - Team Sports- 2 hours (Fall)**

Instruction in skills, knowledge of rules and strategy, care of equipment and history of team sports. Activities will include team sports such as soccer, flag football, volleyball, and softball. Students are expected to participate daily so they get the benefit of physical activity. Course fee \$20. (Required of physical education majors.)

### **HPE 1022. General Activities II - Individual and Dual Sports - 2 hours (Spring)**

This is an instructional course in skills, knowledge of rules and strategy, care of equipment, and history of individual sports. Activities include badminton, archery, step aerobics, weight training, pickle ball, and billiards. Students are expected to participate daily to get the benefit of physical activity. Course fee \$20. (Required of physical education majors.)

### **HPE 1031. Tennis - 1 hour (Fall, Spring)**

Basic skills, rules and courtesies of tennis are presented.

### **HPE 1033. Foundations of Physical Education and Sport - 3 hours (Spring)**

A course designed to help students develop perspectives in the field of physical education. Students will examine the different settings; kinds of programs; qualifications needed to enter the profession; career opportunities; and issues facing physical educators.

### **HPE 1041. Golf - 1 hour (Fall)**

Basic skills, rules and individual performance in golf. Course fee \$40.

### **HPE 1043. Personal and Community Health - 3 hours (Fall)**

Study of major health problems and factors determining health. Special considerations given to principles and practices of good health for individual and community concerns.

**HPE 1051. Beginning Racquetball - 1 hour (Fall)**

Beginning racquetball is a course designed to introduce the student to the sport of racquetball. The student will learn the rules of the game, equipment necessary for safe and competitive play, skills necessary for competent court play, and options for practice sessions and matches. Course fee \$16.

**HPE 1071. Beginning Swimming - 1 hour (Spring)**

Instruction in skills and techniques for beginning swimming. The American Red Cross Beginners Test must be passed for course credit to be received. Course fee \$5. (Required of physical education majors.)

**HPE 1081. Life-Guard Training - 1 hour (Spring, On demand)**

Skills and techniques of life saving as identified in the American Red Cross Water Safety Program will be emphasized. Course fee \$30.

**HPE 1112. Introduction to Sport Management - 2 hours (Fall)**

The course is designed to provide the student with the overview of a career in sport management including areas of professional endeavors which cover a wide variety of sport and fitness related occupations. The course will also provide an academic perspective of the professional preparation necessary to achieve employment in the profession.

**HPE 1131. Aerobic Exercise - 1 hour (Spring, On demand)**

Step and floor aerobics will be utilized to develop skills and expertise in designing a cardiorespiratory program for lifetime wellness. Course fee \$5.

**HPE 1142. Outdoor Adventure Skills - 2 Hours (Fall)**

Instruction and experience in outdoor skills of archery, hunting, fishing, camping, orienteering and outdoor living. Safety and environmental concerns will be incorporated. Course fee \$55.

**HPE 1162. Foundations of Physical Fitness/Wellness - 2 hours (Fall, Spring)**

Study and participation in programs recommended for development of adult physical fitness. Emphasis is on determining level of fitness, importance of fitness in total well being, nutrition and diet selection, monitoring effect of fitness activities, selection of fitness/wellness programs, stress management, and program implementation. Course fee \$4.

**HPE 1163. Foundations of Physical Fitness for Professionals – 3 hours (Fall)**

Study and participation in programs recommended for the development of adult physical fitness. Emphasis on determining the level of fitness, importance of fitness in one's total continuing well-being, nutrition and diet selection, monitoring the effect of fitness activities, selection of fitness/wellness programs, stress management, and program implementation. Special consideration will be given to how professionals in Physical Education, Exercise Science, and Sports Management may apply this information to their field. Course fee \$4.

**HPE 1171. Advanced Swimming - 1 hour (Fall, On demand)**

The American Red Cross Advanced Test must be passed for course credit to be received. Instruction on advanced skills and techniques for swimming will be utilized. Course fee \$5.

**HPE 1181. Aqua Exercise - 1 hour (Fall, Spring, On demand)**

Instruction in skills and techniques of exercise in the water. Course fee \$5.

**HPE 1201. Rock Climbing - 1 hour (Fall)**

Students will be taught the theoretical and technical basics of rock climbing. The focus of the course will be to teach the student technique and safety. Knowledge and practice will provide the student a personal lifetime sport.

**HPE 1211. Walleyball - 1 hour (Fall)**

This is an introductory course to Walleyball. Rules of the game, equipment necessary for safe and competitive play, skills for competent court play, and options for practice sessions and matches make up the course.

**HPE 2011. Scuba Diving - 1 hour (Fall, On demand)**

Theory and techniques of scuba diving. Ten lessons in pool and four open water classes. All equipment provided. Course fee \$195.

**HPE 2012. Officiating Sports - 2 hours (Fall, even years)**

A study of the rules, methods and techniques of officiating sports. Emphasis will be on major sports.

**HPE 2022. Perceptual Motor Development - 2 hours (Fall, Spring)**

Methods of teaching children through movement experiences. An emphasis will be placed on perceptual motor development as it relates to movement.

**HPE 2032. Coaching of Volleyball - 2 hours (Fall, even years)**

Study of offensive and defensive skills and strategy of volleyball. Coaching methods, strategy and organization of practice and matches are emphasized.

**HPE 2042. Psychology of Coaching - 2 hours (Fall, On demand)**

An examination of the psychological principles that apply in coaching, athletics and physical activity.

**HPE 2052. Coaching of Softball and Baseball - 2 hours (Spring)**

The methods and materials used in coaching softball and baseball will be examined. A study of practice organization, skill analysis, teaching methods for each position, purchase and care of equipment. Conditioning will be included.

**HPE 2063. School Health Education - 3 hours (Spring, odd years)**

Curriculum for and methods of teaching health education in elementary and secondary schools.

**HPE 2133. Principles of Human Anatomy - 3 hours (Winterfest)**

Study of the structure of the human body including study at the cellular, tissue, and organ level. Emphasis will be on the organ systems operational in effecting human movement. Prerequisite: BIO 1004.

**HPE/BIO 2243. Nutrition - 3 hours (Fall, Spring)**

Nutritional requirements of mankind with emphasis on the roles of nutrients in the body throughout the life cycle. **Note:** This course may not be included in the curriculum for a biology major.

**HPE 3012. Coaching of Football - 2 hours (Fall, odd years)**

Study of offensive and defensive systems; methods of coaching football.

**HPE 3013. Teaching of Individual and Dual Sports - 3 hours (Spring, On demand)**

Class organization, teaching and coaching methods for selected individual and dual sports. Prerequisites: HPE 1011 and 1021.

**HPE 3022. Coaching of Basketball - 2 hours (Fall, odd years)**

Study of components of basketball. Emphasis on individual and team skills, conditioning and strategy of play.

**HPE 3032 Advanced Scuba Diving B 2 hours (Fall, On demand)**

This course, upon completion, will certify the student as an Advanced Specialty Diver. It is the second course in sequence to Basic Scuba Diving. Course Fee:\$195.00. Prerequisite: HPE 2011.

**HPE 3043. Analysis of Basic Rhythms - 3 hours (Fall, odd years)**

Study of basic rhythmic patterns including application of basic movements and teaching methods. Course fee \$15.

**HPE 3053. Measurement and Evaluation in Physical Education - 3 hours (Spring)**

A course to acquaint students with various evaluation methods in physical education. Practice is given to administering tests and interpreting results with appropriate statistical procedures.

**HPE 3062. Coaching of Track and Field - 2 hours (Spring)**

Study of accepted forms of track and field events; factors affecting endurance, speed and fatigue; preparation and selection of contestants for competition; and management techniques.

**HPE 3073. Physiology of Exercise - 3 hours (Spring)**

Study of the effects of exercise on the organs and systems of the body; special emphasis on the cardio-respiratory system. Prerequisite: HPE 2133. Course fee \$12.

**HPE 3082. Care and Prevention of Athletic Injury - 2 hours (Spring on demand)**

A course to develop skills in the prevention and care of the injuries common to athletic activities; includes both lecture and laboratory experiences. Prerequisite: HPE 2133. Course fee \$12.

**HPE 3092. Standard First Aid - 2 hours (Fall, Spring)**

Study of treatment for common emergencies including treatment of wounds, shock, poisoning, fractures, unconsciousness and stoppage of breathing. American Red Cross certificate may be earned. Course fee \$65.

**HPE 3093. Sport Safety Training - 3 hours (Fall, Spring)**

The purpose of this course is to provide students with the knowledge and skills necessary to help provide a safe environment for athletes while they are participating in sports and, in an emergency, to help sustain life and minimize the consequences of injury or sudden illness until medical help arrives. Course fee \$75.

**HPE 3133. Teaching Physical Education in the Elementary School - 3 hours (Spring)**

Teaching methods; selection of activities; program planning; emphasis on development of a progressive curriculum. Course fee \$20.

**HPE 3963. Sports Management Practicum - 3 hours (Fall, Winterfest, Spring, Summer)**

Credit given for on-the-field experience gained in the practice of sports management specified related duties. Settings are determined according to individual circumstances. Prerequisite: 64 hours completed. (Restricted to Sports Management majors.)

**HPE 4002. Recreation and Sports Programming - 2 hours (Fall)**

This course will provide a comprehensive overview of the elements involved in the planning, organization, implementation, and evaluation of leisure programming as a benefits based service. Emphasis will be given to structuring programs for recreation, sports, games and intramural programming.

**HPE 4003. Kinesiology - 3 hours (Fall)**

Study of skeletal and muscle systems as they relate to physical education and athletic movements. Practice is given in identification of proper form and procedures for correcting errors in sports movements. Prerequisite: HPE 2133.

**HPE 4013. Sports and Physical Activity in American Society - 3 hours (Spring)**

A study of the place of sports and physical activity in American society. Principles, historical events and current status of sports and physical activity will be studied. Required of Physical Education/Sports Management majors. Prerequisite: 64 hours completed.

**HPE/REC 4023. Organization and Administration of Physical Education and Recreation - 3 hours (Fall)**

A course emphasizing the methodology of planning, organizing, administering and managing the physical education or recreation department. Consideration given to staff and personnel, equipment, budgeting, records, reports and programming. Prerequisite: 64 hours completed.

**HPE 4043 Adapted Physical Education – 3 hours (Block, Spring)**

Surveys areas of exceptionalities that occur within a physical education class as well as in a classroom setting. It is designed to help the prospective physical education teacher identify and understand the unique problems of the disabled individual giving specific consideration to mental retardation, pervasive development disorders, learning disabilities mental health disorders, physical disabilities, communication and visual disorders, health impairments, aging, juvenile and adult corrections.

**HPE/EDU 4533. Methods of Teaching Health and Physical Education, 5-12 - 3 hours (Block-Fall)**

Teaching methods; selection of activities; program planning; emphasis on development of a progressive curriculum (restricted to health and physical education majors and minors.)

**HPE 4773. Principles of Strength Conditioning B 3 hours (Spring, On demand)**

This is an in depth course which covers specific resistance training and conditioning as it pertains to athletes and adults. It is a cumulative course that allows students to apply human physiology and biomechanics as they relate to human performance. This course is to prepare the student for the Personal Strength and Conditioning certification test. Prerequisite: 96 hours completed.

**HPE 495(1-4). Intensive Studies in Physical Education - 1-4 hours (On demand)**

An intensified approach to selected physical education topics or subject matter not regularly offered by the department. Areas of study will vary. Prerequisite: 96 hours completed.

**HPE 497(1-3). Physical Education Symposium - 1-3 hours (On demand)**

Credit given by special short-term, but intensified, study in the field of physical education including labs, workshops, clinics or conferences sponsored by national, regional or state associations or agencies. Prerequisite: 96 hours completed.

**HPE 498(3-6). Internship in Sport Management - 3-6 hours (Fall, Spring, Summer, Winterfest)**

A fulltime residency for on-the-job training under the supervision of a sport management professional. Includes observation, supervision, planning, instruction, direct leadership and evaluation. Minimum requirement-240 hours. Prerequisites: A minimum grade of "C" in all sports management courses; a minimum overall GPA of 2.00 in all course work taken at SBU prior to application for internship and prior to internship itself; restricted to Sports Management majors of senior standing; advanced application no later than September or February of preceding semester. Course fee \$100.

**HPE 499(1-3). Independent Studies - 1-3 hours (Fall, Spring)**

Exploratory projects of undergraduate research and directed individual study in health and physical education areas not included in the regular curriculum. See further guidelines in this catalog under "Independent Study." Prerequisite: 96 hours completed.

**Varsity Sports**

Credit will be granted for participation in varsity sports. Course numbers for varsity sports are as follows:

Men's Varsity Basketball	1091-1	3091-1	(Fall, Spring)
Women's Varsity Basketball	1091-2	3091-2	(Fall, Spring)
Women's Varsity Soccer	1111-2	3111-2	(Fall)
Men's Varsity Baseball	1191-1	3191-1	(Spring)
Men's Varsity Tennis	1291-1	3291-1	(Spring)
Women's Varsity Tennis	1291-2	3291-2	(Spring)
Men's Varsity Cross Country	1391-1	3391-1	(Fall)
Women's Varsity Cross Country	1391-2	3391-2	(Fall)
Men's Varsity Football	1491-1	3491-1	(Fall)
Men's Varsity Track	1591-1	3591-1	(Spring)
Women's Varsity Track	1591-2	3591-2	(Spring)
Men's Varsity Golf	1691-1	3691-1	(Spring)
Women's Varsity Softball	1791-2	3791-2	(Spring)
Women's Varsity Volleyball	1891-2	3891-2	(Fall)
Cheerleading	1991-1	3991-1	(Fall, Spring)

**HEALTH SCIENCES****HSC 1009 Emergency Medical Technician – 9 credit hours (Fall, Spring)**

The course is designed for individuals interested in becoming Emergency Medical Technicians. Emphasis will be placed on the development of knowledge and skills needed to provide basic life saving care. In addition, the student will be given the opportunity to use their skill in the ambulance and clinical setting.

**HSC/NUR 3003. Legal and Ethical Issues for Health Professionals - 3 credit hours Professional fee \$150; Library fee \$60.**

Introduces ethical and legal concepts. Explores the basic principles of ethics and the law and how they affect health care decisions. Examines the responsibilities of health care professionals in legal matters and ethical dilemmas. Emphasizes a Christian approach to the law and ethics in health care.

**HSC/NUR 3013. Organization and Delivery of Health Care - 3 hours Professional fee \$150; Library fee \$60.**

Provides an overview of health care delivery systems, examining such influencing forces as history, values and resources. Considers the role of reimbursement methods, technology, personnel and public policy in health care delivery. Explores the structures, processes, outcomes and challenges of the U.S. health care system.

**HSC/NUR 3563. Health Care Informatics - 3 hours (Fall, Spring) Professional fee \$150; Library fee \$60.**

Investigation of computer technology and information science to identify, gather, process and manage information. An understanding of information and technology theory, computer and decision-making systems, data management and electronic information retrieval will be presented with relevance to patient care, health care management and health care research.

**HSC/NUR 4003. Health Promotion and Education - 3 credit hours Professional fee \$150; Library fee \$60.**

Focuses on health promotion and education methods in a variety of clinical settings. Students assess clients' needs, write learning objectives, design learning activities, and evaluate outcomes. Integrates health promotion and health belief models and theories into the education process. Examines techniques of, and barriers to, health education in various health care settings.

**HSC/NUR 4013. Health Care in Culturally Diverse Populations - 3 credit hours Professional fee \$150; Library fee \$60.**

Explores current issues in health care pertaining to culturally diverse populations from a Christian perspective. Examines the social, economic, political, environmental, and religious factors that affect health in different cultural groups. Identifies therapeutic health care practices for culturally diverse clients, families, and communities.

**HSC/NUR 4023. Health Care Finance - 3 credit hours Professional fee \$150; Library fee \$60.**

Examines financial principles, techniques, vocabulary, and procedures used to manage health care budgets and operations. Students will learn how to assess the health care financial environment, seek appropriate data, analyze information, and apply the results to the management of daily operations, using a Christian approach to fiscal responsibilities.

**HSC/NUR 4344. Theories and Research - 4 hours (Fall, Spring)**

This course surveys selected theories for relevance in nursing practice and application to person, health, society/environment and the nursing profession. The role of nursing theories in the research process with contribution to the development of nursing knowledge is explored. The elementary components of the research process with emphasis on critical examination of selected nursing research literature are introduced. Prerequisite/Corequisite: Statistics, current RN license.

## HEBREW

**HEB 2014. Elementary Hebrew I - 4 hours (Fall, even years)**

Introduction to the basic skills of translating biblical Hebrew with emphasis upon vocabulary, grammar, composition and translation. Prerequisites: BIB 1013, 1023.

**HEB 2024. Elementary Hebrew II - 4 hours (Spring, odd years)**

Continuation of HEB 2014 with an introduction to the Hebrew Old Testament through translating representative passages which are relatively uncomplicated. Prerequisite: HEB 2014.

**HEB 495(1-3). Intensive Studies in Hebrew - 1-3 hours**

Exegetical studies in selected books or passages of the Hebrew Old Testament. This course may be taken more than once. Prerequisite: HEB 2024.

## HISTORY

**HIS 1113. Introduction to the History of World Civilization: From the Earliest Times to the Renaissance - 3 hours (Fall)**

The roots of modern western civilization from the dawn of agricultural society in the Middle East and other regions to the Renaissance in western Europe.

**HIS 1123. Introduction to the History of World Civilization: From the Renaissance to the Present - 3 hours (Spring)**

Examines the history of world civilization from the Renaissance in Western Europe to the present day.

**HIS/HON 2013. Honors United States History I - 3 hours (Fall, even years)**

This course offers a political and social survey of United States history from colonization to Reconstruction. Prerequisite: A minimum composite ACT of 28 or SAT equivalent.

**HIS 2213. History of the United States, 1492-1877 - 3 hours (Fall, Spring)**

Political and social survey of United States history from colonization to the end of Reconstruction.

**HIS 2223. History of the United States, 1877-Present - 3 hours (Fall, Spring)**

Political and social survey of United States history from the Gilded Age to the present.

**HIS 295(1-4). Special Topics - 1-4 hours (On demand)**

Topics of special interest not available to the student from the traditional course offerings. May be repeated as topics change.

**HIS 3003. The US Civil War - 3 hours (on demand)**

This class provides a detailed evaluation of the social, economic, and military aspects of the United States Civil War, with special emphasis on the effect of the War on the State of Missouri. Course Fee: \$20.

**HIS/MIL 3153. American Military History - 3 hours (Spring, odd years)**

American Military History from the colonial period to the present; its relation to the national development in war and peace. (May be taken through MSU.)

**HIS 3323. Ancient Rome and the Empire - 3 hours (Winterfest or Spring, odd years)**

A survey of Roman history tracing the main lines of political, social and cultural development from earliest times through the periods of the Republic, the early Empire and the late Empire of the fourth century A.D. Prerequisite: HIS 1113 or BIB 1013 or BIB 1023

**HIS 3333. Ancient Military History - 3 hours (On demand)**

A survey of the development of weapons, armor, strategy, and tactics from the earliest recorded battles to the fall of the Roman Empire in 476 AD, including Biblical battles. Prerequisite: HIS 1113.

**HIS 3423. Europe in the Middle Ages - 3 hours (Summer or Fall, odd years)**

Traces the political, economic, social, intellectual and religious changes in western Europe from the late Roman Empire of the 4th century A.D. to the apex of the area's first advanced civilization, c. 1300 A.D. Prerequisite: HIS 1113.

**HIS 3513. Europe during the Renaissance Period 3 hours (Spring, even years)**

Traces the political, economic, social, intellectual, and religious conditions and developments in western Europe during the Renaissance from the fourteenth through sixteenth centuries. Prerequisite: HIS 1123.

**HIS 3523. Europe During the Reformation Period - 3 hours (Fall, even years)**

Traces the political, economic, social, intellectual, and religious conditions and developments in western Europe during the Reformation period, with special emphasis on the development of the Reformation from Martin Luther to the end of the Thirty Years War in 1648.

**HIS 3613. East Asian History to the Rise of the Mongols - 3 hours (Spring, odd years)**

A survey of East Asian history tracing the political, economic, social, intellectual and religious conditions and developments in East Asia from earliest times to the Mongol Conquest. Particular emphasis will be placed on Chinese interaction with and influence on the Christian world.

**HIS 3783. United States Diplomatic History, 1775-1928 - 3 hours (On demand)**

Survey of late 18th and 19th Century diplomatic relations of the United States. Prerequisite: HIS 2213 or 2223.

**HIS 3813. Colonial and Revolutionary America - 3 hours (Fall, odd years)**

This course covers important topics in American history from the voyage of Columbus in 1492 to the ratification of the Constitution in 1788. The course emphasizes the development of England's American colonies, the independence movement and the successful establishment of the United States of America. Prerequisite: HIS 2213.

**HIS 3823. America in the Early National and Civil War Eras - 3 hours (Spring, even years)**

This course covers important topics in American history from Washington's inauguration as president in 1789 to the end of Reconstruction in 1877. The course will examine the important political, social, intellectual and economic areas of American development during the early national and Civil War eras. Prerequisite: HIS 2213.

**HIS 3833. Gilded Age and Progressivism, 1877-1928 - 3 hours (Fall, even years)**

A topical exploration of the period with emphasis on politics, the rise of big business, intellectual history, social and economic reform, imperialism, and society's efforts to meet the challenges of the industrial age. Course requirements stress reading, writing and class participation. Prerequisite: HIS 2213 or 2223.

**HIS 3843. Recent United States History, 1928-1974 - 3 hours (Spring, odd years)**

A topical exploration of the period with emphasis on the Great Depression and New Deal, domestic effects of World War II and the Cold War, the Civil Rights Movement, Vietnam, the Johnson and Nixon presidencies and Watergate. Course requirements stress reading, writing, and class participation. Prerequisite: HIS 2213 or 2223.

**HIS 3893. United States Diplomatic History, 1929-Present - 3 hours (On demand)**

Survey of 20th century diplomatic relations of the United States. Prerequisite: HIS 2213 or 2223.

**HIS 4303. The Ancient Near East - 3 hours (Fall, odd years)**

A survey of Ancient Near Eastern history tracing the main lines of political, social, and cultural development from the earliest times to the Roman Conquest.

**HIS 4313. Ancient Egypt - 3 hours (Spring, even years)**

A survey of Egyptian history tracing the main lines of political, social, and cultural development from the earliest times to Egypt's conquest by the Romans in 31 BC.

**HIS 4323. Ancient Greece - 3 hours (Fall, even years)**

A survey of Greek history tracing the main lines of political, social, and cultural development from the origin of the Mycenaeans to the Roman conquest of the Greek world.

**HIS 4413. Roman Imperial Civilization and the Early Church - 3 hours (On demand)**

A detailed study of the period from c. 50 B.C. to c. A.D. 450. Emphasis is placed on the political, social, economic, religious and intellectual characteristics of the Hellenistic civilization of that period. Special attention is given to the Jewish sub-culture and the emerging Christian movement in that context. Prerequisites: BIB 1023 or HIS 1113.

**HIS 4503. History Capstone Seminar - 3 hours (Fall)**

This course provides history majors with a capstone experience for their History degree and helps prepare them for the required History ACAT Examination in World and US History. Prerequisites: History major, Junior standing.

**HIS 495(1-4). Intensive Studies in History - 1-4 hours (Fall, Spring)**

Seminar or directed class investigation of selected topics in the context of current historiographical opinion. Content variable. Student may elect to repeat the course. Prerequisite: Nine hours of history.

**HIS 499(1-3). Independent Studies - 1-3 hours (Fall, Spring)**

**(History majors; Social Science Education majors)**

Advanced studies of specific topics arranged by department chair. Prerequisite: History or Social Science Education major, 15 hours of history and 60 or more hours of credit.

## HONORS

### **HON 1003. Honors Fine Arts - 3 hours (Spring)**

This course is intended for students enrolled in the Dutile Honors Program. The course is designed to provide students with a basic understanding of the music and art of various cultures and historical periods. Prerequisite: Enrollment in the Dutile Honors Program. Course fee: \$30.

### **HON 1111. University Seminar - 1 hour (Fall)**

This course is designed to acclimate students to campus life and to the mission of SBU. It is also designed to develop time management and study skills and explore personality typing and career choices. Prerequisite: Enrollment in the Dutile Honors Program. Course fee: \$3.

### **HON 1121. Critical Thinking - 1 hour (Spring)**

This course is designed to promote awareness of a personal value system as well as to promote the use of critical thinking skills in the study of issues in today's society. Prerequisite: Enrollment in the Dutile Honors Program.

### **HON/ENG 1123. Honors Composition - 3 hours (Fall)**

An honors-level course in expository writing based on a study of imaginative literature. The course fosters the development of writing and research skills. Fee \$2. Prerequisite: An English score of at least 28 on the ACT examination or enrollment in the Dutile Honors Program.

### **HON 2003/ECO 2043. Honors Literacy in Free Enterprise (LIFE) Economics - 3 hours (Fall)**

Honors LIFE Economics is the study of basic macro- and microeconomic concepts for non-business majors. This course will help the student develop an understanding of economic systems based on freedom. It will emphasize the importance of individual initiative and involvement in day-to-day community and business matters. Developing literacy about individual responsibility in personal and community decision-making is a primary concern. As an honors section, this class will explore the topic of free enterprise and economics through classroom discussion, enrichment activities and field trips. Prerequisite: Enrollment in the Dutile Honors Program or a minimum composite ACT of 26 or SAT equivalent.

### **HON/HIS 2013. Honors United States History I - 3 hours (Fall, even years)**

This course offers a political and social survey of United States history from colonization to Reconstruction. Prerequisite: Enrollment in the Dutile Honors Program or a minimum composite ACT of 28 or SAT equivalent.

### **HON/COM 2213. Honors Fundamentals of Speech Communication - 3 hours (Spring)**

Foundations of speech communication with special emphasis on the theory and practice of effective public speaking. Progressive work in speech preparation and delivery and exploration of classical and contemporary rhetorical principles. Prerequisite: Minimum composite ACT of 25 or enrollment in the Dutile Honors Program.

### **HON 3771. Honors Colloquium - 1 hour (Fall, Spring)**

For sophomores and juniors officially enrolled in the Dutile Honors Program. The Honors Colloquium will include student presentations, guest speakers, and panel discussions.

### **HON 477(1-3). Senior Honors Capstone Experience - 1-3 hours (Fall, Spring)**

For seniors officially enrolled in the Dutile Honors Program. This course is offered in the student's field of study and includes the integration of faith and discipline. Each student will be required to write a proposal for an individualized capstone experience and obtain the approval of the Honors Program Director, as well as the supervising faculty member. Experiences may include, but are not limited to, grant writing, research leading to publication, or a project integrating the various components of the Dutile Honors Program.

## INTERCULTURAL STUDIES

### **ICS 2013. Cultural and Global Awareness - 3 hours (Fall)**

An introduction to cultural diversity, cultural anthropology, cross-cultural field experiences, cross-cultural ministry, various nations of the world, and current global issues. Prerequisites: BIB 1013, 1023, SPF 2012.

### **ICS 2118. Barefoot Language Learning - 8 hours (Semester Abroad)**

An intensive immersion in language acquisition which utilizes classroom instruction in a foreign country as well as cross-cultural social relationships including living with a national family.

### **ICS 290(1-3). Same-Culture Service Project - 1-3 hours**

Participation in a field service project to an English-speaking group similar to one's own identity. Approval necessary by the department chair. *P/F credit.*

### **ICS 291(1-3). Cross-Cultural Service Project - 1-3 hours**

Participation in a cross-cultural field project to either a non-English speaking group or a group of significantly different ethnic identity. Approval necessary by the department chair.

### **ICS 3033. World Christian Foundations - 3 hours (Spring)**

A vigorous study of the biblical, historical, cultural, and strategic perspectives concerning the expansion of the world Christian movement. Prerequisites: BIB 1013, 1023, SPF 2012.

### **ICS 3043. Spiritual Preparation for Cross-Cultural Service - 3 hours (Fall)**

A study and practicum in discipleship and spiritual life to prepare the student for the difficulty and isolation of cross-cultural Christian service. Prerequisite: ICS 2013 or 3033.

### **ICS 3053. Survival Abroad - 3 hours (Spring)**

Practical preparation for the student's Semester Abroad. Studies include country and job assignments, culture adjustment, stress management, interpersonal relations, fund raising, management of finances, family needs, awareness of host country, and personal health and nutrition. Prerequisites: ICS 2013, 3033, 3043, 3073.

**ICS 3073. Storying and Discipling Cross-Culturally - 3 hours (Spring, odd years)**

A study and practicum in cross-cultural evangelism utilizing biblical narratives and discipling in such a way as to develop indigenous church planting. Prerequisite: ICS 2013 or 3033.

**ICS 4023. Indigenous Christian Community - 3 hours (Spring, even years)**

A study of principles concerning an indigenous, culturally contextualized, biblical Christian community in terms of its worship, discipling, leadership call and roles, pastoral care, social structures, world-view formation, and cell multiplication. Course fee \$30. Prerequisite: ICS 2013 or 3033.

**ICS 4082. Ethnography and Strategy - 2 hours (Semester Abroad)**

Cultural research and FOQUS to examine a cultural group and develop a strategy concerning how to evangelize that group. Instruction through field guidance and via email. Prerequisite: ICS 3073.

**ICS 4121. International Platforms - 1 hour (Spring)**

A seminar concerning how to utilize ethically, practically, and strategically a market skill and a secular position as a platform for Christian service cross-culturally. Prerequisites: ICS 2013, 3033, and 3073 or 4023.

**ICS 4313. World Religions – 3 hours (Spring)**

This course introduces students to the thought and practice of world religions including: Hinduism, Buddhism, Confucianism, Taoism, Islam and animism. Consideration also is given to the issues of religious pluralism, theology of religions, and the appropriate response to each.

**ICS 4953. Intensive Topics - 3 hours (Fall, Spring)**

Selected topics of special interest in the area of cross-cultural ministry. Areas of study will vary from year to year. Prerequisite: ICS 2013 or 3033.

**ICS 498(1-3). Apprenticeship Practicum - 1-3 hours (Semester Abroad)**

On-the-job cross-cultural training under the supervision of a cross-cultural resident. Approval of department chair.

**INTERDISCIPLINARY STUDIES****IDS 1112. Reading Skills - 2 hours (Fall, Spring)**

Skills in skimming, underlining, outlining, increasing vocabulary, improving comprehension and speed are discussed and practiced in relationship to current university courses. One lecture, two laboratories each week. Lab fee \$10. *Taught off-campus only.*

**LEADERSHIP****LDR 2023. Introduction to Leadership - 3 hours (On demand)**

The study of leadership concepts and practices, including an emphasis on the nature and application of servant leadership in a global society. The theoretical basis of leadership is examined. This course should help one discover, understand and develop his/her preferred “style” of leadership.

**LDR 3023. Leadership Development in Organizations - 3 hours (On demand)**

An examination of leadership issues within institutions, including non-profits, companies, private and public organizations, with an emphasis on the ability of leaders to design and implement training and development programs within organizations.

**LDR 4043. Ethics and Professional Development - 3 hours (Fall, Spring)**

A senior-level course that equips the graduating student with the life skills and information necessary for making the transition from college to the professional world. Emphases will be placed on career development, etiquette, and personal financial planning. Particular attention will be given to the role of personal and professional ethics from a Christian worldview. Course fee \$40.

**LDR 4773. Contemporary Issues in Leadership - 3 hours (On demand)**

A study of the cultural, ethical and philosophical issues involved in leadership. This course is the capstone requirement for leadership studies and addresses these issues in the context of a required community project. Students will design and implement a leadership project. Presentations of the project will be made at the conclusion of the course.

**LDR 495(1-3). Intensive Studies in Leadership - 3 hours (On demand)**

A study of the cultural, ethical and philosophical issues involved in leadership. This course is the capstone requirement for leadership studies and addresses these issues in the context of a required community project. Students will design and implement a leadership project. Presentations of the project will be made at the conclusion of the course.

**MANAGEMENT****MGT 295(1-4). Special Topics in Management - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit.

**MGT 3013. Principles of Management - 3 hours (Fall)**

The study of the process of management, which is the coordination of all the resources of organizations in order to achieve organizational objectives. The management process will be described, analyzed and applied to all types of organizations, indicating the universality of management.

**MGT 3033. Operations Management - 3 hours (Fall, Spring)**

An introduction to operations management, which is the design, operation and improvement of the processes that transform inputs into finished goods and services so as to meet the goals of both manufacturing and service organizations. Students learn how to apply the basic analytical models to operations decisions involving planning, scheduling and controlling product and service facilities, product and service design, processes, cost, quality, quantity assurance, production, capacity, inventory management, just-in-time production, supply chain management, project management and distribution requirements. Prerequisite: BUS 2023.

**MGT 4033. Administrative Communications/Human Resource Management - 3 hours (Spring)**

Focuses on the policies, methods and techniques that professional personnel and human resource managers create and implement to achieve successful human resource programs. Prerequisite: BUS 2013, MGT 3013.

**MGT 4043. Organizational Behavior and Theory - 3 hours (Spring)**

Theory of organizations, individual and group behavior, organizational processes and change. This course is a requirement for many graduate programs in business. Prerequisite: MGT 3013.

**MGT 4063. Entrepreneurship and Small Business - 3 hours (Fall)**

Integrates knowledge of the functional areas of entrepreneurial business development, central themes being the impact of the owner or founding team of the company, and the development of systems that will lead to sustainable growth. Emphasis is placed on planning, starting, growing, managing, and expanding a business, with a particular focus on writing a business plan. Prerequisites: MGT 3013.

**MGT 4083. Management Strategy and Policy - 3 hours (Fall, Spring)**

Examine the cooperation that must exist across various functional areas of the business to effectively scan the environment and formulate, implement, evaluate and control corporate objectives, strategies, and policies in order to positively influence the long-term performance of the organization. A business simulation program will be extensively utilized to reinforce the objectives of the course. This course is the capstone requirement for majors in computer information science and all majors from the Departments of Accounting and Business Administration. Prerequisites: ACC 2043, ECO 2023, ECO 2033, MGT 3013, MKT 3023, FIN 3053, and 110 credit hours completed. **Note:** To be taken at SBU only during last semester.

**MGT 495(1-4). Intensive Studies in Management - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit.

**MGT 499(1-3). Independent Study in Management - 1-3 hours (On Demand)**

Independent study of some problem or area in the major not covered in the organized courses. The study is under the direction of a faculty member in whose field of specialization the problem or area lies. Prerequisites: 3.00 GPA in major field, and 60 hours completed.

## MARKETING

**MKT 295(1-4). Special Topics in Marketing - 1-4 hours (On demand)**

Topics will vary with each offering; therefore, the course may be repeated for credit.

**MKT 3023. Principles of Marketing - 3 hours (Spring)**

The study of the system of activities that constitute marketing with emphasis on the principles, policies and strategies utilized to identify and satisfy the needs and wants of consumers. The universal application of marketing management in all forms or organizations is stressed.

**MKT 3033. Consumer Behavior - 3 hours (Fall)**

Introduces the key terms, definitions, and concepts used to describe consumer behavior. Students will learn how we shape our product choices and purchase decisions by investigating the ways we think; the ways we process, store, and retrieve information when needed; and how relationships with others affect these decisions.

**MKT 3073. Professional Selling - 3 hours (Winterfest)**

Investigation, study and practice in the science and art of salesmanship, with emphasis on the consultative or professional approach to ascertaining the needs and wants of others, and assisting them to obtain satisfaction.

**MKT 3083. Creative Advertising - 3 hours (Winterfest)**

This course is designed as a creative, innovative introduction to advertising. Types of advertising media, copy and style will be evaluated, and emphasis will be placed on creativeness in advertising. This course will include films, guest speakers, field trips and creative advertising projects. Course fee \$20.

**MKT 4013. Marketing Research - 3 hours (Spring)**

Provides the student with a basic understanding of the research process as it applies to marketing and business problems. Subjects covered include the scientific method, problem definition, research design, data collection, data analysis, and interpretation. A comprehensive research project and selected case analysis provide opportunity for relating the theoretical concepts and techniques to real world problems. Prerequisites: MKT 3023, BUS 2023.

**MKT 4023. Marketing Management - 3 hours (Fall)**

Advanced study of the role and responsibilities of marketing executives. Emphasis will include the analysis, planning, organization, implementation and control of marketing programs. Prerequisite: MKT 3023 and MGT 3013.

**MKT 495(1-4). Intensive Studies in Marketing - 1-4 hours (On demand)**

Topics will vary with credit offering; therefore, the course may be repeated for credit.

**MKT 499(1-3). Independent Study in Marketing - 1-3 hours (On Demand)**

Independent study of some problem or area in the major not covered in the organized courses. The study is under the direction of a faculty member in whose field of specialization the problem or area lies. Prerequisite: 3.00 GPA in major field, and 60 hours completed.

## MATHEMATICS

### **MAT 0103. PreAlgebra - 3 hours (Fall, Spring)**

This course gives a review of and practice in basic mathematical skills. Applications studied include the use of whole numbers, common and decimal fractions, and percents. The subjects of perimeter, area, and volume are investigated; and concepts of measurement are developed using consumer problems. This course is recommended for students with less than one unit of high school algebra or who have a score of less than 9 on the prealgebra portion of the enhanced ACT Examination. There will be three hours of lecture and one hour of laboratory work each week. This course does not count toward the 128 hours required for graduation. Lab fee \$12.

### **MAT 0123. Intermediate Algebra - 3 hours (Fall, Spring)**

This course is equivalent to one and one-half units of contemporary high school algebra. It has an emphasis on application. It is recommended for students with one to one and one-half units of high school algebra. There will be three hours of lecture and one hour of laboratory work each week. Prerequisite: Appropriate scores on the prealgebra and intermediate algebra portions of the enhanced ACT Examination or a minimum grade of C in MAT 0103. This course does not count toward the 128 hours required for graduation. Lab fee \$12.

### **MAT 1143. College Algebra - 3 hours (Fall, Spring)**

This course explores the use of algebra in the real world. This exploration takes place by examining the concept of function. Conceptual understanding of linear, exponential, logarithmic, quadratic, and other polynomial functions is grounded in the collection and statistical analysis of real world data. Functions will be used to solve real world problems using modeling techniques. The concept of function is also explored in detail using analytic geometry. Prerequisite: Satisfactory scores on the prealgebra and intermediate algebra portions of the enhanced ACT Examination or a minimum grade of C in MAT 0123 Intermediate Algebra.

### **MAT 1163. PreCalculus - 3 hours ((Summer-online and On Demand))**

This course is a rapid and in depth review of algebra, trigonometry functions in the context that it will be used in Calculus. It is intended for the student needing additional algebra and/or trigonometry skills to enable success in MAT 1195 (Calculus) or MAT/BUS 1193 (Business Calculus). Prerequisite: Satisfactory scores on the prealgebra and intermediate algebra portions of the enhanced ACT Examination, a minimum of B in MAT 2283, or a minimum grade of C in MAT 1143 or its equivalent.

### **MAT 1173. Discrete Mathematics - 3 hours (Spring)**

This course is a study of mathematical concepts that are not dependent upon the continuum. Topics will include sets, logic, combinatorics, probability, functions, relations, matrix algebra, Boolean algebra and graph theory. The concept of proof and the nature of proof will also be explored. Prerequisite: MAT 1143 or its equivalent with a minimum grade of C.

### **MAT/BUS 1193. Business Calculus - 3 hours (Fall, Spring)**

This course studies derivatives and antiderivatives of functions, inclusive of exponential and logarithmic functions, with applications to business and economics. This course is not open to mathematics majors. Prerequisite: MAT 1143 or its equivalent with a minimum grade of C, MAT 1163 or its equivalent with a minimum grade of C, or satisfactory scores on the prealgebra and intermediate algebra portions of the enhanced ACT Examination. **Note:** MAT 1193 is a terminal math course. Students desiring further study of calculus must take MAT 1195. Also, a student who takes BUS/MAT 1193 and MAT 1195 will receive credit for only MAT 1195.

### **MAT 1195. Analytics and Calculus I - 5 hours (Fall, Spring)**

This course studies graphs, functions, plane analytical geometry, limits, continuity, derivatives, velocity-acceleration, rates of change, maxima and minima, differentials, the Mean Value Theorems for integrals and derivatives, antiderivatives, definite integrals, area, and methods of finding volumes. Prerequisite: MAT 1163 or its equivalent with a minimum grade of C; MAT 1143 or its equivalent with a minimum grade of C; or satisfactory scores on the prealgebra, intermediate algebra and trigonometry portions of the enhanced ACT Examination. **Note:** A student who takes BUS/MAT 1193 and MAT 1195 will receive credit for only MAT 1195.

### **MAT 2255. Analytics and Calculus II - 5 hours (Fall, Spring)**

This course examines derivatives and integrals of functions and their inverses including exponential and logarithmic functions. It also investigates techniques of integration, further applications of integrals, sequences, series, polar coordinates, applications of parametric equations, and conic sections. Prerequisite: MAT 1195 or its equivalent with a minimum grade of C.

### **MAT 2263. Analytics and Calculus III - 3 hours (Fall, Spring)**

This course examines curves and surfaces in three dimensions, derivatives and integrals of functions of more than one variable, and vector calculus. Prerequisite: MAT 2255 or its equivalent with a minimum grade of C.

### **MAT 2283. Survey of Mathematics for Elementary and Middle School Teachers I - 3 hours (Fall)**

This course presents sets, set notation, and symbolic logic in order to describe and define number properties and operations. It includes an axiomatic development of the system of whole numbers. The course investigates the concepts of addition, subtraction, multiplication, and division algorithms for whole numbers, integers, and rational numbers, using manipulatives. This leads to the development of algorithms. Open only to students preparing to teach in the elementary or middle school. Prerequisite: Satisfactory scores on the prealgebra portion of the Enhanced ACT Examination, a minimum grade of B in MAT 0103 or minimum grade of C in MAT 0123.

### **MAT 2293. Survey of Mathematics for Elementary and Middle School Teachers II - 3 hours (Spring)**

This course extends the concepts of number theory to algebraic reasoning. Concepts of probability and statistics are explored. Analytic, synthetic, and transformation geometry are investigated. Open only to students preparing to teach in the elementary or middle school. Prerequisite: MAT 2283.

**MAT 295(1-4). Special Topics in Mathematics - 1-4 hours**

Selected mathematics topics of special interest.

**MAT 3313. Abstract Algebra - 3 hours (Spring, even years)**

An introduction to abstract algebraic systems and use of properties of groups, rings, integral domains and fields to describe and develop certain characteristics of natural numbers, integers, rational, real and complex numbers. Prerequisite: MAT 1195. Suggested prerequisite: MAT 3333.

**MAT 3323. Linear Algebra - 3 hours (Spring, odd years)**

A study of systems of linear equations, matrices, determinants, vector products, vector spaces, linear transformations and quadratic forms. Prerequisite: MAT 1193 or 1195.

**MAT 3332. Symbolic Logic and Set Theory - 2 hours (Fall odd years, Winterfest, odd years)**

This course is an introduction to symbolic statements, truth tables, quantifiers, inference and implication, special sets of numbers, set operations, correspondences, cardinal numbers, Boolean algebra, and the logical structure of mathematical arguments. It is recommended that this course be taken before MAT 3313, MAT 4483, or MAT 4663. Prerequisite: Must have met mathematics general education requirement.

**MAT 3343. Probability and Statistics - 3 hours (Fall, odd years)**

This course is a Calculus-based investigation of the concepts of probability and statistics including sample spaces, methods of enumeration, discrete and continuous functions or random variables and their distributions, conditional probability, Chebyshev inequalities, central limit theorem, regression and correlation, and sampling and hypothesis testing. Prerequisite: MAT 1195.

**MAT 3353. Integrated Mathematics - 3 hours (Spring, even years, Winterfest, odd years)**

This course will enable students seeking certification in middle or secondary school teaching to analyze mathematics curriculum from an integrated approach. The course will strengthen the students' level of mathematical knowledge, while broadening their structure of this knowledge in a way that is necessary for teachers. The course is recommended for students seeking certification in middle school or secondary school mathematics teaching. All students taking this course will be teaching a component of the course and will be evaluated on their teaching. Prerequisite: Must have met mathematics general education requirement.

**MAT 3363. Differential Equations - 3 hours (Spring)**

This course studies explicit and power series solutions of certain types of linear differential equations, boundary value problems, solving differential equations using applications of Laplace Transforms, and various real-world applications of differential equations. Prerequisite: MAT 2263 or concurrent enrollment in MAT 2263.

**MAT 3372. Math Technologies - 2 hours (Fall, even years, Winterfest, even years)**

What is math technology? How has it and how should it affect how and what we teach in Mathematics? How will it affect your future - be it mathematics, physical science, social science, or business using mathematics? We will consider and write about these and other questions via hands on experience with various math technologies. This course will have a lab component. Topics developed will be tailored to individual students' backgrounds and interests. Prerequisites: MAT 1193 or 1195.

**MAT 3383. History of Mathematics - 3 hours (Fall, odd years)**

A survey of the significant developments in mathematics and contributions of great mathematicians from the Greeks (Thales) to present day. The course focuses mainly on mathematics developed since the invention of analytic geometry and the calculus. Prerequisite: MAT 1195.

**MAT 3391. MAT 3391-Preparing For Secondary Mathematics Praxis - 1 hours (Spring)**

This seminar course is designed to help students seeking certification in secondary school mathematics prepare for the Praxis Exam. The course will be focused on the content of this exam and test taking strategies.

**MAT/CIS 4433. Numerical Analysis - 3 hours (Fall, even years)**

A study of finite differences, numerical integration, matrix computations, numerical solution of linear systems and differential equations and curve fitting. Lab fee \$12. Prerequisite: MAT 2263.

**MAT 4483. Contemporary Geometry - 3 hours (Spring, odd years)**

An axiomatic development of geometry that includes both the classical material of Euclidean geometry and the structure of the alternate axiomatic system of hyperbolic geometry. Prerequisite: MAT 1195. Suggested prerequisite: MAT 3333.

**MAT 4663. Advanced Calculus - 3 hours (Fall)**

Advanced Calculus is a study of the basic concepts in analysis. These include concepts such as continuity, convergence of sequences and series of numbers, convergence of sequence and series of functions, differentiation, and integration. A more complete understanding of these concepts than is achieved in the Calculus sequence is necessary for all mathematics majors and thus this course is a core course of the math major and a type of capstone course. Prerequisite: MAT 2263. Suggested Prerequisite: MAT 3333.

**MAT 495(1-4). Special Topics in Mathematics - 1-4 hours (On demand)**

Selected topics of special interest in mathematics. May be repeated.

**MAT 499(1-3). Independent Studies - 1-3 hours (On demand)**

Selected mathematics topics of special interest. Students initiate a proposal of study as detailed elsewhere in the catalog.

**Methods of Teaching Mathematics in the Middle and Secondary Schools. (See EDU 4513).****Mathematics Through the Eyes of Faith. (See SCF 3422).**

## **MEDICAL TECHNOLOGY**

(Courses offered at Cox School of Medical Technology)

### **MTC 401. Clinical Biochemistry B 10 hours (On demand)**

Theory and laboratory study of analytical biochemistry, incorporating both routine and special chemical procedures.

### **MTC 402. Clinical Microscopy B 2 hours (On demand)**

Principles and techniques of the physical, chemical and microscopic examination of urine and other body fluids as related to the disease process.

### **MTC 403. Clinical Hematology & Coagulation B 7 hours (On demand)**

Study of blood cell derivation, maturation and function. Principles of hemostasis and coagulation. Methodology used in routine and special studies and the interpretation and correlation with disease states.

### **MTC 404. Diagnostic Immunology B 4 hours (On demand)**

The science of immunity including antibody development, principles of the antigen-antibody interactions, and techniques of serological testing for various disease states.

### **MTC 405. Clinical Microbiology - 7 hours (On demand)**

The theory and laboratory study of pathogenic bacteria, viruses, rickettsiae, fungi, and parasites. Includes morphology, physiology, taxonomy, and medical significance.

### **MTC 406. Immunohematology B 4 hours (On demand)**

A study of the blood group systems and the immune response. Methods of cross-matching, antibody screening, and phenotyping. Administrative safeguards and legal aspects of blood banking.

### **MTC 407. Special Topics in Medical Technology B 1 hour (On demand)**

Instruction will include lecture and/or clinical practice in the areas of in-service education, management and supervision, research and development, and the principles and techniques of the instructional process

## **MILITARY SCIENCE**

### **MIL 101(1-2). Introduction to Military Science - 1-2 hours**

History, organization and mission of the U.S. Army and the Reserve Officer Training Corps (ROTC), rappelling techniques, basic rifle familiarization, map reading and understanding the role of the U.S. Army in today's world.

### **MIL 102(1-2). Introduction to Basic Military Skills - 1-2 hours**

Rifle marksmanship, advanced rappelling techniques, military radio and telephone communications, military leadership and basic military skills.

### **MIL 1161. Leadership Fitness - 1 hour**

Development of individual fitness and acquisition of the skills necessary to lead group fitness training. (May be repeated)

### **MIL 211(1-2). Basic Military Skills and Techniques - 1-2 hours**

Introduction to techniques of survival in various situations and climates, rappelling and pistol marksmanship.

### **MIL 212(1-2). Military Fundamentals Practicum - 1-2 hours**

The class is designed for the military science students who desire accelerated instruction on rifle marksmanship, rappelling, communications, map reading (to include the compass) and patrolling. The student will be required to wear a military uniform and meet Army appearance standards.

### **MIL 225(1-5). Basic Military Science Practicum - 1-5 hours**

A 6-week course conducted at Fort Knox, KY. The training is rugged and intensive with emphasis placed on leadership application, practical work and physical conditioning. Training will be conducted six days a week out-of-doors and requires active participation by all students.

### **MIL 3013. Military Leadership and Operations - 3 hours**

Introduction to small unit tactics; principles of military leadership, to include theory, responsibilities, techniques and practice; branches of the U.S. Army, oral presentation techniques and practice. One field trip is required. This course may not be taken pass/not pass.

### **MIL 3023. Military Skills Building - 3 hours**

Small unit tactics; applied military leadership (builds on knowledge gained in MIL 3013) with special emphasis on the junior leader's duties and responsibilities. Two field trips are required. This course may not be taken pass/not pass.

### **MIL/HIS 3153. American Military History - 3 hours (Fall, Spring)**

American Military History from the colonial period to the present; its relation to the national development in war and peace.

### **MIL 3255. Advance Military Science Practicum - 3 hours**

The 6-week course is conducted at Fort Lewis, Washington. The instruction, training and evaluation focuses on the professional development issues required to become an Army Officer. The primary focus is on evaluating the student's leadership potential through this mentally and physically demanding camp. The training and evaluation are conducted seven days a week for six weeks and require active participation by all students. The student is placed in leadership positions which require him/her to lead up to 120 fellow students for extended periods of time.

**MIL 4113. Military Qualification Skills For the Advanced Cadet - 3 hours**

Ethics and professionalism of the military officer; Army command staff functions; oral presentation techniques and practice; military leadership at junior officer level; world change and military obligations. One field trip is required. This course may not be taken pass/not pass.

**MIL 4123. Transition from Cadet to Lieutenant - 3 hours**

Military justice system; army supply and logistics procedures and responsibilities; officer management system; obligations and responsibilities of a military officer; military leadership at junior officer level. Two field trips are required. This course may not be taken pass/not pass.

**MIL 496(1-2). Readings/Research in Military Science - 1-2 hours**

Planned readings and research on subjects in or related to Military Science. May be repeated for a total of 3 hours. This course may not be taken pass/not pass.

## MUSIC

**MUS 0100. Recital Attendance - (Fall, Spring)**

Laboratory in music listening and performance. Attendance at a designated number of department-sponsored or approved concerts. Music majors must complete six semesters of this course. Enrollment for pass-fail only.

**MUS 1101. Basic Class Piano I - 1 hour (Fall, Spring)**

Class instruction in piano designed for non-music students with no previous experience or less than one year. May not be taken by music majors or minors. Two hour lessons per week. No jury required. Lab fee \$10.

**MUS 1111. Basic Class Piano II - 1 hour (Fall, Spring)**

Continuation of MUS 1101 but may be taken by non-music students with one-three years previous study. Students with more than three years study should enroll in Applied Piano. Two one-hour lessons per week. No jury required. Prerequisite: MUS 1101 or permission of instructor. Lab fee \$10.

**MUS 1121. Secondary Class Piano I - 1 hour (Fall)**

Class instruction in piano for music majors and minors to develop functional ability in required secondary performance area. Required each semester until piano proficiency examination is passed. Two one-hour lessons per week. No jury required. Lab fee \$10.

**MUS 1131. Secondary Class Piano II - 1 hour (Spring)**

Continuation of MUS 1121. Prerequisite: MUS 1121 or permission of Coordinator of Applied Music. Lab fee \$10.

**MUS 1141. Basic Class Voice - 1 hour (Fall, Spring)**

Class instruction in voice designed to introduce beginning, non-music majors or minors. Two one-hour lessons per week. Lab fee \$10. No jury required.

**MUS 1151. Basic Class Guitar I - 1 hour (Fall, Spring)**

Class instruction which covers fundamental concepts and applied methods in guitar. Emphasis will be given to chording, beginning music theory, strumming and finger-picking styles of playing, song-writing and performance techniques as they apply to the guitar. Completion of this course satisfies the guitar proficiency requirements for music education majors.

**MUS 1161. Basic Class Guitar II - 1 hour (Fall, Spring)**

Continuation of MUS 1151.

**MUS 1171. Introduction to Church Music and Worship Leadership - 1 hour (Spring)**

An introductory overview of the church music curriculum and careers in church music, with an emphasis on the qualifications and skills necessary for worship leaders.

**MUS 1603. Music Fundamentals - 3 hours (Spring)**

An elementary study of the basic fundamentals of music reading and writing including notation, rhythm, chords and pop/gospel (guitar) chord symbols. Training in how to compose a song.

**MUS 1611. Sightsinging/Eartraining I - 1 hour (Fall)**

Training in sightsinging and aural perception. Must be taken concurrently with MUS 1613 or MUS 1603. Music majors and minors; other with consent of department chair. Lab fee \$10.

**MUS 1613. Theory I - 3 hours (Fall)**

An intensive study of theoretical concepts of music organization, including notation, melody, rhythm and harmony. Beginning functional keyboard study. Taken concurrently with MUS 1611; music majors and minors; others with consent of theory coordinator. Enrollment based on successful completion of the theory placement examination or completion of MUS 1603.

**MUS 1621. Sightsinging/Eartraining II - 1 hour (Spring)**

Continuation of MUS 1611. Must be taken concurrently with MUS 1623. Lab fee \$10. Prerequisite: MUS 1611 with a minimum grade of C.

**MUS 1623. Theory II - 3 hours (Spring)**

An historical/analytical study of the theoretical concepts of music through the classical period. Functional keyboard study. Taken concurrently with MUS 1621. Prerequisite: MUS 1613 with a minimum grade of C.

**MUS 1633. Survey of Music Literature - 3 hours (Fall, Spring)**

Survey of representative music literature from all historical periods and the development of analytical listening techniques. Music majors and minors.

**MUS 1701 Introduction to Music Education - 1 hour (Spring)**

Introductory overview of the music education curriculum and the profession of the music educator.

**MUS 2121. Secondary Class Piano III - 1 hour (Fall)**

Continuation of MUS 1131. Prerequisite: MUS 1131 or permission of Coordinator of Applied Music. Lab fee \$10.

**MUS 2131. Secondary Class Piano IV - 1 hour (Spring)**

Continuation of MUS 2121. Prerequisite: MUS 2121 or permission of Coordinator of Applied Music. Lab fee \$10.

**MUS 2611. Sightsinging/Eartraining III - 1 hour (Fall)**

Advanced work in sightsinging and aural perception. Must be taken concurrently with MUS 2613. Lab fee \$10. Prerequisite: MUS 1621 with a minimum grade of C.

**MUS 2613. Theory III - 3 hours (Fall)**

An historical/analytical/compositional study of the theoretical concepts of music of the Romantic period as well as a brief study of counterpoint, fugue and variation techniques. Taken concurrently with MUS 2611. Lab fee \$10. Prerequisite: MUS 1623 with a minimum grade of C.

**MUS 2621. Sightsinging/Eartraining IV - 1 hour (Spring)**

Continuation of MUS 2611. Must be taken concurrently with MUS 2623. Prerequisite: MUS 2611 with a minimum grade of C. Lab fee \$10.

**MUS 2623. Theory IV - 3 hours (Spring)**

An historical/analytical/compositional study of theoretical concepts of music from 1890 to the present. Taken concurrently with MUS 2621. Lab fee \$10. Prerequisite: MUS 2613 with a minimum grade of C.

**MUS 2702. Basic Conducting - 2 hours (Fall)**

Introduction to manual techniques of conducting, terminology for the conductor, mechanics of choral, band and orchestral scores. Prerequisites: MUS 1621 and 1623.

**MUS 2711. Instrumental Fundamentals - 1 hour (Spring)**

An elementary study of woodwind, brass, and percussion instruments with emphasis on tone production, fundamental performance techniques, and pedagogy. Lab fee \$15.

**MUS/CHR 2712. Worship Leading for Small Churches - 2 hours (Spring, odd years)**

To provide basic worship leading skills for ministerial students and others working with small churches and small groups. Attention given to motivating and directing congregational and small group singing, planning worship services and rudimentary techniques in leading choirs of limited skill. No credit for music majors and minors.

**MUS 2721. String Fundamentals - 1 hour (Fall)**

An elementary study of string instruments with an emphasis on tone production and fundamental performance techniques. Laboratory teaching experience. Two class meetings per week. Lab fee \$15.

**MUS 2731. Woodwind Methods - 1 hour (Spring, even years)**

An intensive study of woodwind instruments including a survey of solo, ensemble and instructional literature. Emphasis on the ability to play and teach. Laboratory teaching experience. Two class meetings per week. Lab fee \$15.

**MUS 2741. Brass Methods - 1 hour (Fall, even years)**

An intensive study of brass instruments including a survey of solo, ensemble and instructional literature. Emphasis on the ability to play and teach. Laboratory teaching experience. Two class meetings per week. Lab fee \$15.

**MUS 2751. Percussion Methods - 1 hour (Spring, odd years)**

An intensive study of percussion instruments including a survey of solo, ensemble and instructional literature. Emphasis on the ability to play and teach. Laboratory teaching experience. Two class meetings per week. Lab fee \$15.

**MUS 2771. Vocal Diction I 1 hour (Fall)**

A basic study of the phonetic pronunciation of the Italian and English languages through the use of the International Phonetic Alphabet. Must be taken concurrently with MUS 1331 or 1332.

**MUS 2781. Vocal Diction II - 1 hour (Fall)**

A basic study of the phonetic pronunciation of the German and French languages through the use of the International Phonetic Alphabet. Prerequisite: MUS 2771.

**MUS 2802. Piano Pedagogy - 2 hours (Fall, even years)**

Discussion and analysis of suitable methods and materials of teaching at elementary and intermediate levels. Guidance in establishing and operating the private studio. Prerequisite: MUS 1311 or 1312.

**MUS 295(1-4). Special Topics in Music - 1-4 hours (On sufficient demand)**

Topics of special interest in music. May require the appropriate applied fee. Prerequisite: Consent of department chair.

**MUS 3602. Analysis of Music Structure - 2 hours (Fall, odd years)**

Advanced study of analytical techniques applied to music from the 17th-20th centuries. Prerequisite: MUS 2611 and 2623.

**MUS 3622. Orchestration - 2 hours (Fall, even years)**

Study of the capabilities of band and orchestral instruments; analysis of scores; practical work in scoring for small and large instrumental combinations. Prerequisite or concurrent enrollment: MUS 2611 and 2623. Lab fee \$10.

**MUS 3653. History of Western Music I - 3 hours (Fall)**

Intensive study of the history of music and representative music literature before 1750. Prerequisite: MUS 1633 and MUS 2613 or permission of instructor.

**MUS 3663. History of Western Music II - 3 hours (Spring)**

Intensive study of the history of music and representative music literature since 1750. Prerequisites: MUS 2623 and MUS 3653.

- MUS 3672. Organ Literature and Design - 2 hours (Spring, odd years)**  
A survey of organ literature and practical study of organ registration, design and pedagogy. Prerequisite: MUS 1321 or 1322.
- MUS 3712. Choral Conducting - 2 hours (Spring)**  
Continued work toward mastery of the basic skills of conducting. Emphasis upon the development of choral rehearsal and performance techniques. Survey of stylistic characteristics of the five major periods of choral literature. Prerequisite: MUS 2702.
- MUS 3722. Instrumental Conducting - 2 hours (Spring, even years)**  
Continued work toward mastery of the basic skills of conducting, including score study, score arranging, and baton technique. Emphasis upon the development of band rehearsal and performance techniques. Survey of stylistic characteristics of the major periods of band literature. Prerequisite: MUS 2702.
- MUS 3732. Church Music Literature and Materials - 2 hours (Spring, odd years)**  
Survey and analytical study of sacred music literature including choral and instrumental music representing all periods of church music with emphasis on music relevant to the contemporary church. Prerequisite: MUS 1623 and 1633.
- MUS 3742. Church Music Education - 2 hours (Fall, even years)**  
A study of organizational techniques, methods and materials, unit and rehearsal plans and enlistment procedures for a church music program for children through grade six.
- MUS/CHR 3752. Instrumental Ministry in the Church - 2 hours (Spring, even years)**  
A practical study of the use of instrumental music in the church, including all aspects of instruments in music ministry. Techniques and materials used by the church pianist and organist involving hymn playing, modulation, transposition, improvisation, and accompanying choirs and soloists. The use of band and orchestra instruments in varying combinations and the use of handbells in music ministry. Prerequisite: Two semesters of piano (or organ) or permission of instructor.
- MUS/CHR 3783. Worship and Song in the Church - 3 hours (Fall)**  
A historical survey of the worship practice and congregational song of the major Christian denominations with an emphasis on planning worship for today's churches.
- MUS 3802. Piano Literature - 2 hours (Fall, odd years)**  
A general survey of piano repertoire from 1650-Present. Prerequisite: Two semesters of piano or permission of instructor.
- MUS 3812. Vocal Pedagogy - 2 hours (Spring, odd years)**  
An intensive study of vocal teaching techniques and vocal literature for use in private studio, voice class, music contest and worship. Laboratory teaching experience. Prerequisite: Four semesters of applied voice or consent of instructor.
- MUS/EDU 3813. Elementary Music Education - 3 hours (Spring)**  
Study of administrative teaching techniques and survey of materials for teaching vocal and instrumental music in early childhood and elementary grades. Examination of musical concepts and skills appropriate at each age or learning level. Training in use of piano, recorder, autoharp and fretted instruments. Prerequisite: MUS 1621 and 1623; music majors and minors only.
- MUS 3853. Music Industry I - 3 hours (Fall, even years)**  
A study of issues affecting the music industry professional. An introduction to careers, public relations, self-promotion and music licensing organizations. Prerequisite: 64 hours completed.
- MUS 3863. Music Industry II - 3 hours (Fall, odd years)**  
An in-depth study of issues affecting the music industry professional. Aspects of concert promotion, contracts, licensing costs and the role of the music agent will be studied. Prerequisite: 64 hours completed.
- MUS 3913. Music Merchandising - 3 hours (On demand)**  
Survey and hands-on experience in the day-to-day operations of a retail music establishment, with emphasis on good merchandising practice.
- MUS 3923. Recording Techniques - 3 hours (Spring, odd years)**  
Survey of terminology, equipment, and basic techniques of sound reinforcement and recording, along with hands-on projects in recording and live performances.
- MUS/CHR 4101. Church Music Technology - 1 hour (Spring, even years)**  
An introductory overview of the technology available to church musicians. Prerequisite: CIS 1103 or 1033.
- MUS/EDU 4573. Methods of Teaching Vocal Music in the Middle and Secondary Schools - 3 hours (Fall, odd years)**  
Study of philosophy of music education, administrative and teaching techniques and materials for teaching vocal music in the middle and secondary schools. Music majors and minors only. Prerequisites: MUS 1621 and 1623.
- MUS/EDU 4583. Methods of Teaching Instrumental Music in the Middle and Secondary Schools - 3 hours (Fall, even years)**  
Study of philosophy of music education, administrative and teaching techniques and materials for teaching instrumental music in middle and secondary schools. Emphasis will be placed on lesson plans and their implementation. Music majors and minors only. Prerequisites: MUS 1621 and 1623.
- MUS 4622. Choral Arranging and Composition - 2 hours (Spring)**  
Original composition in idioms of the 20th century, including original pieces suitable for school and church. Emphasis on creative ideas and techniques for choral arranging. Lab fee \$10. Prerequisite: MUS 2621 and 2623.
- MUS 4701. Supervised Teaching in Piano - 1 hour (Fall, Spring)**  
Practical piano teaching experience in a supervised laboratory situation. Prerequisite: MUS 2802.
- MUS 4712. Choral Techniques - 2 hours (Fall, even years)**  
Building the needed understanding, listening skills and expectations for developing a choral ensemble in regard to the aspects which shape choral teaching and performance, which include: vocal pedagogy and choral tone, musicality and performance practice, text and diction, rhythmic vitality, tuning and intonation, and dynamics. Prerequisites: MUS 3712: music major and minors only.

**MUS 4722. Repertoire for Secondary Choral Music - 2 hours (Spring, even years)**

A study of choral music appropriate for use in the secondary school and the criteria for its selection. Prerequisite: MUS 3712 or permission of instructor.

**MUS 4732. Marching and Jazz Band Techniques - 2 hours (Fall, odd years)**

Study of techniques in the organization, training and performance of marching and jazz bands in public schools. Techniques for music arranging and drill writing will be studied. Laboratory: required field trips to high school rehearsals, parades and contests.

**MUS/CHR 4743. Church Music Administration - 3 hours (Fall, odd years)**

Study of the functional approach to the church music ministry including organization, administration, budget, calendar, scheduling, purchase and maintenance of equipment, rehearsal, performance, service planning, congregational activities and staff relations.

**MUS 4752. Supervised Field Experience in Church Music - 2 hours (Fall, Spring)**

On-the-job training under the supervision of a full-time minister. Includes observation and supervised work as director and/or accompanist. Course fee \$50. Prerequisite: MUS 3743 and 4743.

**MUS 495(1-4). Intensive Studies in Music - 1-4 hours (On sufficient demand)**

Topics of special interest in music. May require the appropriate applied fee. Prerequisite: Consent of department chair.

**MUS 4984. Internship in the Music Industry - 4 hours (On demand)**

On-the-job training in a music industry agency, such as a recording studio, music store or music theater. Includes 160 hours of observation, instruction, supervised tasks and evaluation.

**MUS 499(1-3). Independent Studies - 1-3 hours (Fall, Spring)**

Advanced studies of specific topics arranged with department chair.

**ENSEMBLES: Students enroll in ensemble according to academic classification prefix.**

(1) Freshman (2) Sophomore (3) Junior (4) Senior

The major ensembles are Concert Choir, SBU Chorale, Wind Symphony, and Orchestra.

**MUS (1,2,3,4)001. Concert Choir - 1 hour (Fall, Spring)**

Open to all students by audition. Study and performance of literature for the mixed choir. Three rehearsals per week. Concerts on campus and off-campus. Lab fee \$10.

**MUS (1,2,3,4)011. SBU Chorale - 1 hour (Fall, Spring)**

Open to all students by audition. Study and performance of advanced literature for the mixed choir. Four rehearsals per week. Concerts on campus and on tours. Lab fee \$10.

**MUS (1,2,3,4)021. Wind Symphony - 1 hour (Fall, Spring)**

Open to all students by audition. Study and performance of works for concert band (woodwinds, brass, percussion and string bass). Four rehearsals per week. Concerts on campus and on tours. Lab fee \$10.

**MUS (1,2,3,4)031. Orchestra - 1 hour (Fall, Spring)**

Open to all students by audition. Study and performance of works for both string and full orchestra as well as for other combinations involving orchestra string instruments. Three rehearsals per week. Lab fee \$10.

**MUS/THR (1,2,3,4)041. Opera Theatre - 1 hour (Fall, Spring)**

Open to all students by audition. Study and performance of operatic or musical theater solos and ensembles. One major production per year.

**MUS (1,2,3,4)051. Jazz Ensemble - 1 hour (Fall, Spring)**

Open to all students by audition. Study and performance of works for jazz ensemble. Two rehearsals per week. Concerts on campus and on tours.

**MUS (1,2,3,4)061. Brass Ensemble - 1 hour (Spring)**

Open to all students by audition. Various quartets, quintets and choirs.

**MUS (1,2,3,4)071 - Percussion Ensemble - 1 hour (Fall, Spring)**

Open to all students by audition. Various chamber ensembles consisting of percussion instruments.

**MUS (1,2,3,4)081. Higher Ground - 1 hour (Fall, Spring)**

Open to all students by audition. Small ensemble of vocalists and instrumentalists emphasizing contemporary Christian music. Performance on campus and on tour in schools and churches. Vocalists must be enrolled in SBU Chorale or Concert Choir.

**MUS (1,2,3,4)511. Chamber Singers - 1 hour (Fall, Spring)**

Open to all students by audition. Vocal ensemble performing chamber literature from major stylistic periods including vocal jazz. Three rehearsals per week. Must be enrolled in SBU Chorale concurrently, or by instructor approval.

**MUS (1,2,3,4)521. Woodwind Ensemble - 1 hour (Fall, Spring)**

Open to all students by audition. Various chamber ensembles consisting of one or more of the following: flutes, oboes, clarinets, saxophones and bassoons.

**MUS (1,2,3,4)531. String Ensemble - 1 hour (Fall, Spring)**

Open to all students by audition. Chamber ensemble consisting of bowed string instruments.

**PRIVATE APPLIED MUSIC (FALL, SPRING)**

Private instruction for music majors and minors and intermediate to advanced non-majors. Students should enroll in applied lessons according to the semester of study in the specific applied area (See applied music enrollment criteria). All applied music may be taken for 1 or 2 hours credit. Applied fee \$175 per credit hour per semester. Practice room fee \$25 per semester.

Enrollment in Applied Conducting presumes previous study in conducting as a prerequisite—this includes MUS 2702 Basic Conducting, along with either: MUS 3722 Instrumental Conducting; or MUS 3712 Choral Conducting and MUS 4712 Choral Techniques.

Enrollment in Applied Composition presumes previous study in music theory as a prerequisite—usually this includes substantial progress in the sequence of music theory courses.

#### **APPLIED MUSIC ENROLLMENT CRITERIA**

1000-level: First or second semester of study

2000-level: Third or fourth semester of study

3000-level: Fifth or sixth semester of study

4000-level: Seventh or more semester of study

(1,2,3,4)20(1,2) Applied Flute

(1,2,3,4)21(1,2) Applied Oboe

(1,2,3,4)22(1,2) Applied Clarinet

(1,2,3,4)23(1,2) Applied Bassoon

(1,2,3,4)24(1,2) Applied Saxophone

(1,2,3,4)25(1,2) Applied French Horn

1,2,3,4)26(1,2) Applied Trumpet

(1,2,3,4)27(1,2) Applied Trombone

(1,2,3,4)28(1,2) Applied Euphonium

(1,2,3,4)29(1,2) Applied Tuba

(1,2,3,4)30(1,2) Applied Percussion

(1,2,3,4)31(1,2) Applied Piano

(1,2,3,4)32(1,2) Applied Organ

(1,2,3,4)33(1,2) Applied Voice

(1,2,3,4)34(1,2) Applied Violin

(1,2,3,4)35(1,2) Applied Viola

(1,2,3,4)36(1,2) Applied Cello

(1,2,3,4)37(1,2) Applied Double Bass

(1,2,3,4)40(1,2) Applied Guitar

438(1,2) Applied Conducting

439(1,2) Applied Composition

## **NURSING**

### **NUR/HSC 1002. Medical Terminology - 2 hours. (On demand)**

This online course focuses on the basic principles of medical terminology and application to the day-to-day work of allied health personnel. This course does not fulfill the elective requirement for the B.S.N. program.

### **NUR 1006. Fundamental Concepts of Nursing - 6 hours.**

**(Contact hours: 45 classroom, 135 clinical)**

This course introduces concepts and theories fundamental to professional nursing including the role of the nurse, nursing process, communication, patient education and basic physiological and psychosocial assessment. Students learn at a beginning level a wide range of nursing skills that an associate degree nurse encounters. Skills are taught in the clinical lab initially and then applied in patient care settings. Prerequisites: BIO 2204, BIO 2213, BIO 3304, CHE 1104. The following are co-requisite if not previously completed: NUR 1023, CIS 1103, PSY 1013.

### **NUR 1023. Pharmacology for Nurses - 3 hours.**

**(Contact hours: 45 classroom)**

This course presents the general principles of pharmacological therapies and major drug classifications utilizing a nursing process approach. Prerequisites: BIO 2204, BIO 3304, CHE 1104, BIO 2213. The following are co-requisite if not previously completed: NUR 1006, CIS 1103, PSY 1013.

### **NUR 1104. Paramedic/Advanced Placement Bridge - 4 hours.**

**(Contact hours: 39 classroom, 65 clinical)**

This course introduces paramedics to professional nursing practice ranging from basic concepts and theories to care of the medical and surgical patients as found in NUR 1134 and NUR 1135. Technical skills and pharmacological interventions as found in NUR 1006 and NUR 1023 will be reviewed in the learning resource center, in the classroom, and with guided self-study. Clinical experiences provide opportunities to apply learned classroom knowledge. Prerequisites: BIO 2204, BIO 2213, BIO 3304, CIS 1103, CHE 1104, ENG 1113, PSY 1013 and PSY 3063, admission to the ASN program, and current Missouri Paramedic licensure. Advanced placement into third semester nursing courses granted on successful completion of this course, with 18 additional nursing hours granted for previous paramedic education.

### **NUR 1134. Nursing Interventions I – Clinical - 4 hours.**

**(Contact hours: 180 clinical)**

This course builds on clinical skills learned in the first semester of the program and is designed to be the clinical companion course for NUR 1135. Clinical experiences are designed to complement the classroom content of NUR 1135. Prerequisites: CIS 1103, NUR 1006, NUR 1023, and PSY 1013. Concurrent enrollment or previous completion required for NUR 1135, ENG 1113 and PSY 3063.

### **NUR 1135. Nursing Interventions I - 5 hours.**

**(Contact hours: 75 classroom)**

This course builds on NUR 1006 and NUR 1023. Nursing care that examines functional health status of patients experiencing medical or surgical problems is presented. Use of the nursing process is further developed concentrating on identification of nursing needs and utilization of nursing interventions. Prerequisites: NUR 1006, NUR 1023, CIS 1103, and PSY 1013. Concurrent enrollment or previous completion required for NUR 1134, ENG 1113 and PSY 3063.

**NUR 2002. LPN Bridge - 2 hours.****(Contact hours: 15 classroom/independent study, 45 clinical)**

This course introduces LPN's to professional nursing practice ranging from basic concepts and theories to care of the medical and surgical patients as found in NUR 1134 and NUR 1135. Technical skills and pharmacological interventions as found in NUR 1006 and NUR 1023 are reviewed in the learning resource center, in the classroom and with guided self-study. Clinical experiences provide opportunities to apply learned classroom knowledge. Subconcepts of nursing including caring, communication, client education and accountability will be discussed. Prerequisites: BIO 2204, BIO 2213, BIO 3304, CHE 1104, CIS 1103, ENG 1113, PSY 1013, PSY 3063, admission to the program, and current LPN Missouri License. Advanced placement into third semester nursing courses granted on successful completion of this course with 18 hours additional nursing hours granted for previous LPN education.

**NUR 2004. Nursing Interventions II-Clinical - 4 hours.****(Contact hours: 180 Clinical)**

This course builds on NUR 1134 and is designed to be the clinical companion course for NUR 2005. Clinical experiences are designed to complement the classroom content of NUR 2005. Demonstration of increasing clinical skill by the nursing student is expected. Prerequisites: NUR 1134, NUR 1135, ENG 1113, PSY 3063. Concurrent enrollment or previous completion required for BIO 2213 and NUR 2005.

**NUR 2005. Nursing Interventions II - 5 hours.****(Contact hours: 75 classroom)**

This course builds on NUR 1135 to further examine nursing interventions for patients from wellness to varying degrees of complex health problems. Content related to specialty nursing practice is introduced. Prerequisites: NUR 1134, NUR 1135, ENG 1113, PSY 3063. Concurrent enrollment or previous completion required for BIO 2213 and NUR 2004.

**NUR 2124 Nursing Interventions III – 4 hours.****(Contact hours: 30 classroom, 90 clinical)**

This course builds on NUR 2004 and NUR 2005. Students are given opportunity to care for patients with multi-system problems and increase competence using nursing process in clinical settings to provide safe, quality patient care. Prerequisites: NUR 2004, NUR 2005 and BIO 2213. Concurrent enrollment or previous completion required for BIB 1013, BIB 1023 and BIO 2243.

**NUR 2135. Nursing Role Integration - 5 hours.****(Contact hours: 30 classroom, 135 clinical)**

This course builds on NUR 2124 and introduces the student to the entry-level nurse leadership role with opportunity to examine ethical/legal considerations, career development and the effective management of safe, quality patient care within the health care system. A preceptor experience provides students the opportunity to explore entry-level nursing roles under the guidance of clinical agency staff and nursing instructors. Focus is on learning interdisciplinary functions of organization, delegation, prioritization, coordination and collaboration. Prerequisites: NUR 2124, BIO 2213. Concurrent enrollment or previous completion required for BIB 1013, BIB 1023 and BIO 2243.

**NUR/ HSC 3003. Legal and Ethical Issues for Health Professionals - 3 credit hours. (On demand)**

Introduces ethical and legal concepts. Explores the basic principles of ethics and the law and how they affect health care decisions. Examines the responsibilities of health care professionals in legal matters and ethical dilemmas. Emphasizes a Christian approach to the law and ethics in health care.

**NUR/HSC 3013. Organization and Delivery of Health Care - 3 hours (On demand)**

Provides an overview of health care delivery systems, examining such influencing forces as history, values and resources. Considers the role of reimbursement methods, technology, personnel and public policy in health care delivery. Explores the structures, processes, outcomes and challenges of the U.S. health care system.

**NUR 3023. Faith Community Nursing- 3 hours (On demand)**

This course explores the role of nursing in the faith community. The unique dimensions of nursing in the church will be examined as well as an overview of health, healing, and wholeness from a variety of faith traditions and perspectives. The role of the faith community is considered in the light of scripture and Christian traditions.

**NUR 3033. Care at the End of Life- 3 hours (On demand)**

This course examines professional concepts to guide care at the end of life. The concepts build on prior education and experience to enhance professional growth. These concepts include evidence-based practice, ethics, decision-making processes, grief and loss, and future trends in health care.

**NUR 3043. Missionary Nursing- 3 hours (Summer)**

The focus of this course is on the annual Ecuador nursing missions trip. This course examines the culture of the area, our mission as nurses, Christ's call upon our lives and the ministry of nursing.

**NUR 3053. Diabetes Across the Lifespan- 3 hours (On demand)**

This course will emphasize current research, clinical practice guidelines, patient education, and patient experience of diabetes as a disease. The course will provide a general overview of the disease along with helping the student better understand the diabetes experience and how to educate/provide nursing care to the diabetic client.

**NUR 3063. Emergency Preparedness- 3hours (On demand)**

This course examines the challenges that all nurses have when preparing for hazards and emergencies that can occur in our communities. Nurses must plan for pandemic influenza, chemical, biological, radiological/nuclear, and explosive events, mass casualty incidents, natural and environmental disasters, and surge capacity to accommodate victims. This course provides an overview of the essential knowledge and skills for nurses to prepare for disasters, manage disasters, and meet the spiritual needs of victims.

**NUR 3073. Patient Education- 3 hours (On demand)**

This course will focus on patient education and health promotion methods for a variety of clinical settings. Students will go through the educational nursing process of assessment of client's needs, establishing nursing diagnoses, writing learning objectives, establishing learning activities/ interventions, and evaluation of their educational intervention and learning objectives. Health promotion and health belief models and theories will be integrated into this patient education process. Students will examine techniques of, and barriers to, health education in various health care settings.

**NUR 3083. Clinical Genetics- 3 hours (On demand)**

This course focuses on the fundamentals of genetics. The course is designed to give the student a basic understanding of genetic concepts so that this knowledge can be utilized to understand current and future genetic theories and therapeutics.

**NUR/HSC 3202 Foundations of Learning - 2 hours (Fall, Spring, Summer)**

This course gives students a solid foundation for successful professional learning. The course orients students to the online learning environment, including how to use the learning management system, how to conduct research online using electronic library databases, how to write academic papers using APA format, and how to access essential information related to courses, registration, and grades. Students will examine the core competencies of their program in light of personal and professional goals, and will develop a professional résumé.

**NUR 3303. Health Assessment - 3 hours (Fall, Spring) Clinical fee \$100**

Acquisition and utilization of skills in interviewing and assessing psychosocial, cultural, spiritual and physical health status of clients of all ages. Normal and abnormal findings are included, and skills are practiced in class throughout the semester. The student will perform a head-to-toe assessment on an individual at the end of the semester. Examination of the students own health risks and health practices are included. Taken prior to clinical courses.

**NUR 3363. Pharmacological and Complementary Therapies - 3 hours (On demand)**

This course expands the student's ability to counsel clients about which approaches are evidence-based and which lack this background. This course explores therapies for disease as well as health and wellness. Examines allopathic pharmaceutical interventions seeking to develop a clearer understanding of how drugs affect the body across the life span (e.g., pharmacodynamics, pharmacokinetics). Prerequisites: BIO 2204, BIO 3304 and BIO 4404 or permission of instructor.

**NUR 3373. Professional Nursing Practice - 3 hours (Fall, Spring)**

This course examines professional concepts that guide nursing practice. The concepts build on prior education and experience to enhance professional growth. These concepts include evidence-based practice, ethics, professional organizations, political action, health care economics, and future trends in health care.

**NUR 3383. Gerontological Nursing - 3 hours (Fall, Spring)**

This course addresses relevant topics directed at optimum nursing interventions of older adults. Students will examine the holistic effects of aging as well as issues specific to the older adult.

**NUR 3393. Transcultural Nursing - 3 hours (Fall, Spring)**

This course is an introduction to the theories and concepts of transcultural nursing. Students will examine topics that identify therapeutic practices of nursing care for culturally diverse clients, families, and communities.

**NUR 3453. Spirituality in Nursing Practice - 3 hours (Fall, Spring)**

This course explores personal Christian spiritual development and diverse models of spirituality, emphasizing their impact on health and nursing care. Spiritual practices and the responsibilities and issues of spiritual care are examined. Christian discipleship and a Christian theology of nursing are discussed as they apply to professional practice in a secular environment.

**NUR/HSC 3563. Health Care Informatics - 3 hours (Fall, Spring)**

Investigation of computer technology and information science to identify, gather, process and manage information. An understanding of information and technology theory, computer and decision-making systems, data management and electronic information retrieval will be presented with relevance to patient care, health care management and health care research. Prerequisite: CIS 1103.

**NUR/ HSC 4003. Health Promotion and Education - 3 credit hours (On demand)**

Focuses on health promotion and education methods in a variety of clinical settings. Students assess clients' needs, write learning objectives, design learning activities, and evaluate outcomes. Integrates health promotion and health belief models and theories into the education process. Examines techniques of, and barriers to, health education in various health care settings.

**NUR/HSC 4013. Health Care in Culturally Diverse Populations - 3 credit hours (On demand)**

Explores current issues in health care pertaining to culturally diverse populations from a Christian perspective. Examines the social, economic, political, environmental, and religious factors that affect health in different cultural groups. Identifies therapeutic health care practices for culturally diverse clients, families, and communities.

**NUR/HSC 4023. Health Care Finance - 3 credit hours (On demand)**

Examines financial principles, techniques, vocabulary, and procedures used to manage health care budgets and operations. Students will learn how to assess the health care financial environment, seek appropriate data, analyze information, and apply the results to the management of daily operations, using a Christian approach to fiscal responsibilities.

**NUR/HSC 4344. Theories and Research - 4 hours (Fall, Spring)**

This course surveys selected theories for relevance in nursing practice and application to person, health, society/environment and the nursing profession. The role of nursing theories in the research process with contribution to the development of nursing knowledge is explored. The elementary components of the research process with emphasis on critical examination of selected nursing research literature are introduced. Prerequisite/Corequisite: Statistics, current RN license.

**NUR 4404. Community Health - 4 hours (Fall, Spring) Clinical fee \$100**

Theoretical and clinical practice on the concepts and theories related to the health of the community which includes historical, economic, social, cultural and political influences. Health promotion, health maintenance and prevention of disease is emphasized. Clinical practice occurs in health clinics, schools, community shelters, group homes and other locations that serve the diverse health needs of the community. Prerequisites: BIO 4404, NUR 3303, current RN license.

**NUR 4423. Clinical Case Management - 3 hours (On demand)**

This course focuses on nursing case management of the individual/family unit experiencing a life threatening illness or accident. Nursing, family, stress, crisis, and teaching learning theories will be examined. Prerequisites: BIO 4404, NUR 3303.

**NUR/HSC 4434. Administration and Leadership - 4 hours (Fall, Spring) Clinical fee \$100**

This course examines the knowledge and skills necessary to be an effective administrator in the changing health care environment. Prerequisite: current RN license.

**NUR 4441. Capstone Seminar - 1 hours (Fall, Spring)**

Exploration and synthesis of nursing knowledge and practice issues facing the nursing profession and the health care system. Discussion of issues in practice, education and research. Prerequisites: Limited to students who are enrolled in final semester of senior year. Current R.N. license.

**NUR 445(1-4). Special Topics in Nursing- 1-4 hours (On demand)**

A study of topics from one or more fields chosen to meet students' special and/or advanced needs and interests. Potential topics include alternative modes of care delivery, nurse entrepreneurship, and nursing specialties such as staff development nursing and critical care nursing.

**NUR 499(1-3). Independent Studies - 1-3 hours (On demand)**

Student-proposed topics in nursing practice, education or research which are approved by faculty and department chair for independent study.

## **PHILOSOPHY**

**PHI 2013. Philosophical Foundations for a Christian Worldview - 3 hours (Fall, Spring)**

Introduction to historical and/or contemporary philosophical questions, problems, issues, and figures, with special emphasis on topics relevant to constructing and defending a coherent, philosophically adequate, Christian worldview.

**PHI 3013. Logic and Language - 3 hours (On demand)**

Examination of philosophical methods of evaluating arguments, with special emphasis on natural deduction. Possible coverage of additional topics in philosophy of logic and/or philosophy of language. Prerequisite: PHI 2013 or permission of instructor.

**PHI 4013. Philosophy of Religion - 3 hours (Spring, even years)**

Critical analysis of central problems and issues in philosophy of religion, including such topics as the attributes of God, arguments for and against God's existence, the relationship of faith and reason, divine foreknowledge and human freedom, the problem of religious diversity, and the possibility and nature of religious experience, miracles, and immortality. Prerequisite: PHI 2013.

**PHI 4043. Ethics - 3 hours (On demand)**

Critical analysis of prominent historical and contemporary views in ethics, with special attention given to Christian approaches. Exploration of various issues in *metaethics* (philosophical questions about ethics itself, including the grounding of moral obligation, moral motivation, and the challenge of ethical relativism), *normative ethics* (theories of right and wrong, such as utilitarianism, Kantianism, and virtue theory), and *applied ethics* (contemporary ethical issues, such as abortion, euthanasia, and capital punishment). Prerequisite: PHI 2013.

**PHI 4153. Metaphysics - 3 hours (On demand)**

Critical analysis of central problems and issues in metaphysics, including such topics as the fundamental constituent(s) of reality, the nature of existence and truth, the relationship of mind and body, free will, personal identity, the reality of the external world, and the nature of space and time. Prerequisite: PHI 2013.

**PHI 4163. Epistemology - 3 hours (On demand)**

Critical analysis of central problems and issues in epistemology, including such topics as the analysis of knowledge; theories of justification, truth, and perception; knowledge of the external world and the challenge of skepticism; the problem of induction; the possibility of religious knowledge; and the ethics of belief. Prerequisite: PHI 2013.

**PHI 4173. Symbolic Logic - 3 hours (On demand)**

Continuation of PHI 3013. Exploration of advanced, formal methods of analyzing arguments, with special emphasis on the techniques and applications of predicate logic and modal logic. Prerequisite: PHI 3013 or permission of instructor.

**PHI 495(1-4). Intensive Studies in Philosophy - 1-4 hours (On demand)**

Intensive study of selected philosophical issues, problems, historical periods, and/or major figures. Since topics will vary, course may be taken repeatedly for credit. Prerequisite: PHI 2013.

**PHI 499(1-3). Independent Studies - 1-3 hours (On demand)**

Independent study of some problem, topic, or historical figure(s) in philosophy not covered in the organized courses. Prerequisites: Philosophy minor, 3.00 GPA in major, 9 hours of philosophy and 60 hours total completed, permission of instructor.

**PHYSICAL SCIENCE****PHS 1004. Introduction to Physical Science - 4 hours (Winterfest, Spring)**

An integrated study of selected basic principles and concepts of chemistry and physics, including topics of current interest. Designed for the general student. Three lectures each week and one laboratory period per week. Lab fee \$40. Prerequisite: MAT 1143 or satisfactory scores on the prealgebra and intermediate algebra portions of the enhanced ACT examination.

**PHS 1114. Introduction to Earth Science - 4 hours (Fall, Winterfest)**

Basic principles of the earth in space, its atmosphere, the oceans and the development of land forms by geologic agents. Designed for the general student. Three lectures, one laboratory period per week. Lab fee \$40.

**PHS 2005. Physical Science for Elementary and Middle School Teachers - 5 hours (Spring)**

A study of the basics of astronomy, chemistry, geology, meteorology, and physics. Designed to emphasize discovery-based learning and inquiry-related instructional techniques by significantly utilizing enhanced classroom technology, hands-on laboratory experimentation, library research, and writing components. Four lectures, one laboratory period each week. Lab fee \$50. Prerequisites: ENG 1113 and either MAT 1143 or MAT 2283. **Note:** Open only to elementary and middle school education majors.

**PHS 2214. Meteorology - 4 hours (On demand)**

A study of the earth's atmosphere and forces that influence weather phenomena including environmental trends. Three lectures, one laboratory period per week. Lab fee \$40. Prerequisites: MAT 1143 or satisfactory scores on the prealgebra and the intermediate algebra portions of the enhanced ACT examination.

**PHS 2314. Astronomy - 4 hours (Fall)**

A study of the historical and descriptive aspects of the solar system, stars, galaxies and current topics related to space science. Three lectures, one laboratory period per week. Lab fee \$40. Prerequisites: MAT 1143 or satisfactory scores on the prealgebra and the intermediate algebra portions of the enhanced ACT examination.

**PHS 295(1-5). Intensive Studies in the Physical Sciences - 1-5 hours (On demand)**

Topics of special interest not available to the student in the traditional course offerings. May be repeated as topics change. Lab fee \$10-\$50 as necessary. Prerequisites: Determined by nature of topic studied.

**PHS 3303. History and Philosophy of Science and Technology - 3 hours (Fall, even years)**

A study of the historical and philosophical foundations of science and technology, accompanied by an examination of the logical and ethical ramifications of various past and present science and technology phenomena. Prerequisites: The general education life science requirement, the general education physical science requirement, and ENG 2213.

**PHYSICAL THERAPY****PTH 2523 Introduction to Physical Therapy - 45 clock hrs**

Introduces students to the multifaceted role of the physical therapy profession. Topics include the diversity and growth of healthcare and physical therapy, methodologies used in physical therapy education, and the concept of the health care team. Introduction to medical terminology will also be made, teaching the student to form medical terms, and define medical terms used in medical documents to be able to read and write these documents. Prerequisite: none.

**PHYSICS****PHY 1115. General Physics I - 5 hours (Fall)**

A non-calculus physics course emphasizing the fundamental concepts of mechanics, heat and wave motion. Designed for pre-physical therapy, science education, biology, pre-medical, pre-veterinary, pre-optometry and pre-pharmacy majors. Four lectures, one laboratory period each week. Lab fee \$60. Prerequisites: MAT 1143 or satisfactory scores on the prealgebra and intermediate algebra portions of the enhanced ACT examination.

**PHY 1125. General Physics II - 5 hours (Spring)**

A non-calculus physics course emphasizing the fundamental concepts of mechanics, heat and wave motion. Designed for pre-physical therapy, science education, biology, pre-medical, pre-veterinary, pre-optometry and pre-pharmacy majors. Four lectures, one laboratory period each week. Lab fee \$60. Prerequisite: PHY 1115.

**PHY 2215. University Physics I - 5 hours (Fall)**

A rigorous calculus-based physics course emphasizing mechanics, heat and wave motion. Designed for pre-engineers, computer science and physical science majors. Four lectures, one laboratory period each week. Lab fee \$60. Prerequisite: MAT 2255 or concurrent enrollment. **NOTE:** A student cannot receive credit for both PHY 1115 and 2215.

**PHY 2225. University Physics II - 5 hours (Spring)**

A continuation of PHY 2215, emphasizing electricity, magnetism and optics; introduction to atomic physics. Four lectures, one laboratory period each week. Lab fee \$60. Prerequisites: PHY 2215 and MAT 2263 or concurrent enrollment. **NOTE:** A student cannot receive credit for both PHY 1124 and 2225.

**PHY 295(1-3). Special Topics in Physics - 1-3 hours (On demand)**

A study of topics from one or more of the fields of physics chosen to meet student needs and interests. Lab fee \$12-\$36 as necessary. Prerequisite: PHY 1124 or PHY 2225.

**PHY 3233. Mechanics - 3 hours (Spring)**

Application of the principles of vector mechanics to problems of equilibrium. Topics include resultants, equilibrium, trusses, centroids and moments of inertia. Designed for pre-engineers and physics minors. Three lectures each week. Prerequisites: PHY 2215 and MAT 2255.

**PHY 3363. Modern Physics - 3 hours (On demand)**

A study of the atomic view of matter and radiation, relativity and wave-particle duality; basic concepts of quantum physics. Three lectures each week. Prerequisites: PHY 2225 or PHY 1124 and MAT 1195.

**PHY 3413 (CIS 2233). Machine Organization - 3 hours (Fall)**

A survey of the electronic and mechanical components of a computer, including processing units, memory and I/O devices. Also includes an introduction to assembly language programming. Three lectures per week. Lab fee \$12. Prerequisites: CIS 1154 and PHY 2225.

**PHY 395(1-4). Special Topics in Physics - 1-4 hours (On demand)**

A study of topics from one or more fields chosen to meet special student needs and interests. Topics could include dynamics, advanced mechanics, optics, thermodynamics, electromagnetic field theory, electronics and nuclear physics. Laboratory may be included. Lecture and laboratory periods variable. Lab fee \$12-\$48 if necessary. Prerequisites: Determined by nature and level of topics studied.

**PHY 4413. Advanced Electricity and Magnetism - 3 hours (On demand)**

A course emphasizing vector calculus techniques in the study of electrostatics, electric fields, magnetostatics, magnetic fields and electrodynamics. Three lectures per week. Prerequisites: PHY 2225 and MAT 3363.

**POLITICAL SCIENCE****POL 1113. American Government and Politics - 3 hours (Fall, Spring)**

Origin, organization and policy of United States government at the national, state and local levels. Encourages citizen participation and leadership in democratic processes beginning at the community level. Fulfills the Missouri statutory requirement.

**POL 2101. Prelaw Seminar - 1 hour (Spring)**

A career oriented course which identifies the major fields of law; also includes a study of the requirements for admission to law school with emphasis on the types of Law School Admission Test questions.

**POL 2223. American State and Local Government - 3 hours (Spring)**

Organization, administration and problems of state, county, municipal and other local governments in the United States. Prerequisite: POL 1113.

**POL 295(1-4). Special Topics in Political Science - 1-4 hours**

Prerequisite: POL 1113.

**POL 3313. International Relations - 3 hours (Spring, odd years)**

An in-depth study of relations among the nations of the world and the problems which arise with their constantly increasing interactions. Prerequisite: POL 1113.

**POL 3323. Comparative Government - 3 hours (Fall, odd years)**

A comparison of different kinds of political systems in the various regions of the world. The U.S. style of democracy will be compared with parliamentary systems, middle eastern and African authoritarianism, socialist systems, Asian democracies and Latin American corporatism. Prerequisite: POL 1113.

**POL 4453. Congress and the Legislative Process - 3 hours (Spring, even years)**

Major topics include: origin and powers of the United States Congress; relation of Congress to the other branches of government and to the public; leadership, partisanship, the committee system and policy making; comparison with the state legislatures. Prerequisite: POL 1113 or consent of instructor.

**POL 4563. The Supreme Court and Constitutional Development - 3 hours (Fall, odd years)**

Focuses on landmark Supreme Court decisions and judicial interpretations of the U.S. Constitution from the 1790's until the present; topics addressed include origins of the Constitution, powers of the three branches, separation of powers, regulation of commerce and individual rights based on the Bill of Rights. Prerequisite: POL 1113 or consent of the instructor.

**POL 4673. The American Presidency - 3 hours (Fall, even years)**

Explains the role of the President in the American Federal System. Focuses on relations with the public and the press, the Congress and the Courts, the bureaucracy and public policy. Prerequisite: POL 1113.

**POL 4883. Political Philosophy - 3 hours (Spring, even years)**

A study of the political themes in the classical philosophies from Platonism to Marxism in comparison with biblical teachings on the same themes. Major topics addressed include: the nature of man, the ideal form of governments, the citizen's responsibility to the government, the government's responsibility to the citizen, the definition of liberty and the nature of human rights. Prerequisites: POL 1113 and 60 or more hours of credit.

**POL 495(1-4). Intensive Studies in Political Science - 1-4 hours (Fall, Spring)**

A seminar investigating a selected topic or theme in the light of previous and current interpretations. Areas of study will vary with each offering; therefore, the student may elect to repeat the course when different content is offered. Prerequisite: Six hours of political science and/or consent of instructor.

**POL 498(1-8). Internship - 1-8 hours (On demand)**

Credit for participation in approved off-campus internship, training, or in-service training experience in government related activity. Prerequisite: 12 hours of political science, 60 or more hours of credit, minimum GPA of 2.25, and approval of the department.

**POL 499(1-3). Independent Studies - 1-3 hours (Fall, Spring)**

Advanced studies of specific topics. Prerequisites: 15 hours of political science and 60 or more hours of credit.

**PSYCHOLOGY****PSY 1013. General Psychology - 3 hours (Fall, Spring)**

A "life-oriented" course including physiological backgrounds of behavior, development, motivation, emotion, intelligence, personality, adjustment and social psychology. May be counted towards General Education credit.

**PSY/SOC 2001. Sophomore Seminar B 1 hour (Fall, Spring)**

This is a topical course emphasizing the content of the majors in behavioral sciences and the APA (American Psychological Association) style of writing.

**PSY 2023. Psychology of Adjustment - 3 hours (Fall, Spring)**

A psychology of adjustment course focusing on areas affecting mental health (i.e., stress, personality, relationships). Emphasis on class involvement and personal application. Prerequisite: 32 hours completed.

**PSY 2063. Systems of Psychology - 3 hours (Fall, Spring)**

Major concepts of various systems of psychological thought in current and historical perspective. Prerequisite: PSY 1013.

**PSY/SOC/SWK 2233. Introduction to Research - 3 hours (Fall, Spring)**

This course will provide students with an overview of the various research methods in the behavioral sciences. Specific attention will be given to the different methods of assessment, evaluation, and research inquiry found in the fields of psychology, sociology, and social work. Prerequisites: PSY 1013, SOC 1003 or SWK 2003.

**PSY 295(1-3). Special Topics - 1-3 hours (On demand)**

Study of critical issues and topics in psychology not covered in other course offerings. Areas of study will vary from year to year. Students may repeat this course once.

**PSY/SOC 3001. Junior Seminar B 1 hour (Fall, Spring)**

This is a topical course emphasizing the career opportunities for behavioral science majors and graduate school preparation. Prerequisite: 64 hours completed.

**PSY 3003. Human Sexuality - 3 hours (Fall, or on demand)**

A course designed to provide the student with frank, factual information about the many aspects of sex; to help enable the student to see sex as a natural, integral, God-ordained component of marriage; and to dispel common myths and misconceptions about sex. Prerequisite: 64 hours completed.

**PSY 3013. Relationships B 3 hours (J-terms)**

A personal application course designed to introduce healthy relational principles through self-exploration of interpersonal needs, dynamics, and relating skills.

**PSY 3033. Abnormal Psychology - 3 hours (Fall, Spring)**

Major psychoses, psychoneuroses, sexual adjustment and an analysis of childhood background which leads to mental breakdowns, phobias, compulsions and hysteria. Prerequisite: PSY 1013.

**PSY/EDU 3053. Child Development - 3 hours (Fall, Spring)**

A study of the operation of normal psychological and developmental processes in the lives of children from birth to adolescence. Prerequisite: PSY 1013 or EDU 2113.

**PSY 3063. Human Growth and Development - 3 hours (Fall, Spring)**

A "Life-Span" study of human growth and developmental processes including physiological, psychological and sociological influences and effects. Students receiving credit for this course cannot receive credit for both PSY 3053 and PSY 4033 in the psychology major. Prerequisites: PSY 1013 or EDU 2113.

**PSY/SOC 3073. Social Psychology - 3 hours (Fall, Spring)**

Social behavior of individuals and the major processes of social interaction, social influence, group structure, the individual and the system and socialization. Three hours credit in either psychology or sociology (not both). Prerequisites: PSY 1013 or SOC 1003.

**PSY/SOC 3083. Psychological and Sociological Implications of Cognitive Impairments - 3 hours (Spring)**

Definition, diagnosis, classification, perceptual and conceptual evaluation. Multi-disciplinary approach to cognitive impairments. Three hours credit in either psychology or sociology (not both). Two lectures, one laboratory each week. Prerequisites: PSY 1013 or SOC 1003.

**PSY 3093. Psychology of Learning - 3 hours (Spring, even years)**

Survey of the field of learning in terms of historical backgrounds, acquisition, retention, forgetting, transfer and motivation. A brief introduction to the various theories and systems of learning is included. Prerequisites: 2063.

**PSY/SOC 3243. Elementary Statistics - 3 hours (Fall, Spring)**

Measurement, averages, variability percentile rank, normal curve, correlation, chi-square and probability related to the behavior sciences. Prerequisites: PSY 1013 or SOC 1003 or EDU 2113 and CIS 1103 or 1033.

**PSY 3313. Introduction to Counseling - 3 hours (Fall, Spring)**

An introduction to counseling theory, methods and techniques, including a study of client-counselor encounters, stages of counseling and the counseling interview. Prerequisites: PSY 2063 and 64 hours completed.

**PSY 3393. Introduction to Sports Psychology B 3 hours (Spring, odd years, or as needed)**

An introduction to the field of sports psychology and performance enhancement. This course will cover sport and exercise psychology as well as techniques used in the field. This course will prepare the student for any graduate program that is in the area of sports psychology. Prerequisites: PSY 1013 and 64 hours completed.

**PSY/SOC 4001. Senior Seminar B 1 hour (Fall, Spring)**

This a topical course for behavioral sciences majors, which emphasizes professional development and ethics of the profession and also serves as a cap-stone course for the purposes of integration and assessment. Prerequisite: 64 hours completed.

**PSY/SOC 4003. Understanding Women - 3 hours (J-terms, odd years or as needed)**

A course designed to increase awareness of sex roles and their influence on women's sexuality, relationships and mental health. Emphasis is placed on surveying and examining the modern woman's place in society--her roles and experiences as a single woman, wife, mother and career person. Prerequisite: 64 hours completed.

**PSY 4023. The Psychology of Personality - 3 hours (Spring)**

Factors and conditions relating to personality structure and dynamics, defense mechanisms and a critical examination of the theories of personality. Prerequisites: 2063.

**PSY 4033. Adolescent Development - 3 hours (Fall, Spring)**

A study of the development processes of the adolescent, beginning at puberty and continuing through late adolescence. Prerequisite: PSY 1013 or EDU 2113.

**PSY/SOC 4053. Dealing with Death and Dying - 3 hours (Fall, Spring)**

An examination of how society and its institutions, the individual and survivors view and are affected by the process of dying and death. Guidelines are provided to enable the students to aid others and themselves in dealing with death and dying. Prerequisite: PSY 1013 or SOC 1003.

**PSY 4083. Psychology of Religion - 3 hours (Summer)**

This course will include an examination of theory and research pertaining to psychological perspectives on religious belief, behavior, development, and outcomes from a Christian perspective. Also to include an examination of the relationship between psychology and Christian faith. .

**PSY 4093. Behavior Modification - 3 hours (Fall, even years)**

A course oriented to the rationale and theoretical basis of behavior modification and its clinical use in a clinical therapy setting. Specific principles and techniques will be discussed. Prerequisites: PSY 2063.

**PSY 4223. Psychological Testing - 3 hours (Spring)**

Survey of the field of psychological testing with emphasis on types of tests, validity and reliability. Prerequisites: PSY 2063 and 3243.

**PSY/SOC 4233. Research Design and Methods - 3 hours (Fall-Behavioral Science students, Spring-Athletic Training students)**

Intensive analysis of experimental designs and methods of research including measurement issues, ethical considerations, sampling techniques, data-gathering techniques, data analysis and interpretation, presentations and reporting of results. Lab fee \$12. Prerequisites: PSY or SOC 3243.

**PSY 4243. Pre-marital Counseling - 3 hours (J-terms)**

An applied course designed to give the student a working knowledge of premarital counseling. Focus will be given to assessment tools, biblical foundation of marriage and the premarital counseling process. Prerequisite: 64 hours completed.

**PSY 4263. Physiological Psychology - 3 hours (Fall, even years)**

An introduction to the biological/physiological basis for human behavior. The structure and the function of the nervous system, neuropsychological methods, sensation, emotional responses, learning, memory and psychopathology will be covered. Prerequisites: PSY 2063 and BIO 1004 or BIO 1114.

**PSY 4273. Small Group - 3 hours (J-terms)**

An innovative course that is conducted as an "experiential interaction laboratory" providing students the opportunity to increase their understanding and skills in the areas of personal, interpersonal and small group communication. Prerequisites: 64 hours completed. *Graded Pass/Fail.*

**PSY 4313. Counseling Methods and Practice - 3 hours (Fall, Spring)**

An experientially oriented study of the counseling process with special emphasis on methodology and practice in the art of listening and the exercise of appropriate judgment. Prerequisite: Minimum of a C in PSY 3313.

**PSY/SOC 4333. Child Abuse and Neglect - 3 hours (J-terms)**

A study of child abuse and neglect with consideration given to causes, symptoms, treatment and prevention. A special section is included dealing with the treatment of adult survivors of child abuse. Prerequisite: SOC 1003 or PSY 1013.

**PSY 4363. Marriage and Family Counseling - 3 hours (Fall)**

Theories and practices of marriage and family practice, with emphasis on the family as a system. Include intergenerational and development issues and characteristics of a successfully functioning family. Prerequisite: 64 hours completed.

**PSY/SOC 4373. Being Human and Addicted (Addictionology) - 3 hours (Fall, odd years)**

A study of the effects of drugs on the human being, issues of physiology, psychology, sociology and religion will be addressed as they relate to chemical dependency. An overview of treatment methods and therapy will be included. Prerequisite: 64 hours completed.

**PSY 4883. Advanced Counseling Methods and Practice - 3 hours (On demand)**

A course designed to give the advanced counseling minor practice in role-play counseling situations involving the initial interview, analysis of data, written summaries, diagnosis and critique of same. This class will involve videotaping of the role-play sessions. Prerequisite: Minimum of a C in PSY 4313.

**PSY 495(1-4). Intensive Studies - 1-4 hours (On demand)**

A study of critical issues in psychology that are not covered in other course offerings. Areas of study will vary from year to year. Students may elect to repeat the course. Prerequisite: 64 hours completed.

**PSY 4953. Psychology of Religion - 2 hours (Summer)**

This course will include an examination of theory and research pertaining to psychological perspectives on religious belief, behavior, development, and outcomes from a Christian perspective. Also to include an examination of the relationship between psychology and Christian faith.

**PSY 498(3-6) Internship - 3-6 hours (On demand)**

The internship experience is designed to give the upper level psychology major supervised field experience in a social services or related area. Prerequisites: 64 hours completed, at least 15 hours of the major and minimum GPA of 3.00. *Graded Pass/Fail.*

**PSY 499(1-3). Independent Studies - 1-3 hours (On demand)**

Advanced studies of specific topics arranged by department chair.

**RECREATION and LEISURE STUDIES****REC/SOC 1102. Introduction to Leisure - 2 hours (Fall, even years)**

A basic course which provides a philosophical and conceptual framework of leisure. Theoretical, sociological, historical and spiritual aspects are included. An investigatory approach in which leisure is identified with recreation and other areas of life.

**REC 1113. Foundations of Community Recreation - 3 hours (Spring, even years)**

A course concerning the history, nature, extent and significance of recreation in the community setting. Special attention is focused on government related agencies that provide public leisure services. Course fee \$15.

**REC 1123. Principles of Church Recreation - 3 hours (Fall)**

A survey course in the interpretation, objectives, history and philosophy of recreation in the church and its relationship and contribution to the total church ministry. An overview of the various program areas of church recreation is included.

**REC 2042. Social Recreation - 2 hours (Fall, odd years)**

A course in the planning, promotion and conducting of various types of events. Classroom discussion and demonstrations of activities for parties, fellowships and other social occasions included. Course fee \$10.

**REC 2052. Camp and Retreat Administration - 2 hours (Spring)**

A study of organizational, administrative and programming aspects of resident camps, day camps and retreats. Includes history of the camping movement and an overview of outdoor education.

**REC/CED 2062. Drama in the Church and Community - 2 hours (Spring, On demand)**

A practical application course with special emphasis given to the role of drama in the church and community. Includes a study of various types of drama, organizational methods for the establishment of an on-going program and review of resources.

**REC 2072. Senior Adult Recreation - 2 hours (Spring, even years)**

An investigation of the needs and potentials of senior adults with emphasis on recreation programming opportunities. Problems of aging are also considered.

**REC 2092. Recreation and Athletic Facilities - 2 hours (Fall)**

A course which examines the planning and design of recreation and athletic facilities. Also includes practical considerations for operating a facility.

**REC 295(1-3). Special Topics in Recreation - 1-3 hours (As arranged)**

An intensified approach to selected themes or subject matter in recreation. Areas of study may vary. Prerequisites: 8 hours in recreation.

**REC 3163. Recreation Leadership - 3 hours (Spring, odd years)**

A course designed for training leaders of recreation. Techniques of direct recreation leadership and methods for practical application of leadership skills are emphasized. Includes lab. (Must be taken at SBU). Prerequisites: REC 1102 and 1113 or 1123.

**REC 3263 Environment Resource Management – 3 hours (Fall, odd years)**

A course in planning and developing recreation resources and their affect on the natural environment. The course will introduce students to principles, theories, and methods of renewable resources, environmental interpretation and education. Course fee \$30.

**REC 3783. Recreation Field Guidance Seminar - 3 hours (Spring on demand)**

A laboratory-type exposure to recreation; actual situations are encountered and discussed in seminar fashion. Prerequisites: REC 1102 and 1113 or 1123.

**REC 3992. Readings in Recreation - 2 hours (Fall, odd years)**

A concentrated study of books relating to the field of recreation. Oral and written work pertinent to each book is required.

**REC/HPE 4023. Organization and Administration of Recreation - 3 hours (Fall)**

A course emphasizing the methodology of planning, organizing, administering and managing the recreation department. Consideration given to staff and personnel, equipment, budgeting, records, reports and programming. Prerequisites: 64 hours completed.

**REC 4043 Concepts of Therapeutic Recreation – 3 hours (Block, Spring)**

Surveys areas of disabilities that may be distinguished or reserved for services by the Therapeutic Recreation specialist. It is designed to help the prospective therapist identify and understand the unique problems of the disabled individual giving specific consideration to mental retardation, pervasive development disorders, learning disabilities mental health disorders, physical disabilities, communication and visual disorders, health impairments, aging, juvenile and adult corrections.

**REC 4762. Problem Solving in Recreation and Sports Management - 2 hours (Spring)**

A seminar on problem solving in the recreation profession. Aimed at facilitating transition between the academic and professional experience. (Restricted to recreation majors or minors with 64 hours completed.)

**REC 495(1-3). Intensive Studies in Recreation - 1-3 hours (As arranged)**

An intensified approach to selected themes or subject matter in recreation. Areas of study may vary. Prerequisites: 12 hours in recreation and 64 hours completed.

**REC 496(1-3). Recreation Practicum - 1-3 hours (Fall, Spring, Summer)**

Credit given for on-the-field experience gained in the practice of specified recreation related duties. Settings are determined according to individual circumstances. (Maximum of 3 hours total may be earned toward major.) Prerequisite: 64 hours completed. (Restricted to Recreation majors or instructor's approval.)

**REC 497(1-2). Recreation Symposium - 1-2 hours (On demand)**

Credit given for special short-term, off-campus study in the field of recreation including labs, clinics or conferences as sponsored by national, regional or state recreation associations or agencies. (Restricted to recreation majors or minors with 64 hours completed.)

**REC 4989 Internship in Recreation – 10 hours (Fall, Spring, Summer)**

A fulltime residency for on-the-job training under the supervision of a church or community recreation professional. Includes observation, supervision, planning, instruction, direct leadership and evaluation. Prerequisites: A minimum GPA of 2.00 in all coursework taken at SBU prior to application for internship and prior to internship itself, restricted to Recreation Management majors with 96 hours completed. Course fee \$150.

**REC 499(1-3). Independent Investigations in Recreation - 1-3 hours (Fall, Spring)**

Exploratory projects or undergraduate research and directed individual study in recreation areas not included in the regular curriculum. See further guidelines in this catalog under "Independent Study." (Restricted to recreation majors with 96 hours completed.)

**RELIGION****REL 295(1-3). Special Topics in Religion - 1-3 hours**

Investigation of selected themes, topics or current issues in religion. Areas of study will vary from year to year (the course may be repeated).

**REL 499(1-3). Independent Research - 1-3 hours****SCIENCE AND CHRISTIAN FAITH****SCF 3402. Biology Through the Eyes of Faith - 2 hours (Fall)**

Study from the biblical perspective of the unique nature of biology and its interaction with Christian thought. Working from the authority of the Scriptures and the conviction that Christianity is true, this course examines the history of biology, emphasizing the interactions of the life sciences with society in medicine, genetics and the environment. Two lectures each week. Prerequisite: General education requirement in life science.

**SCF 3412. Chemistry Through the Eyes of Faith - 2 hours (Spring, even years)**

Study from the biblical perspective of the unique nature of chemistry and its interaction with Christian thought. Working from the authority of the Scriptures and the conviction that Christianity is true, this course examines the history of chemistry, emphasizing the interactions of chemistry with society in religion, medicine and the environment. Two lectures each week. Prerequisite: General education requirements in the physical sciences.

**SCF 3422. Mathematics Through the Eyes of Faith - 2 hours (Fall, even years, Winterfest, even years)**

Study from the biblical perspective of the unique nature of mathematics and its interaction with Christian thought. Working from the authority of the Scriptures and the conviction that Christianity is true, this course examines the history of mathematics, emphasizing the interactions of mathematics with society and Christian thought. Two lectures each week. Prerequisite: General education requirements in mathematics.

**SCF 3432. Physics Through the Eyes of Faith - 2 hours (Spring, odd years)**

Study from the biblical perspective of the unique nature of physics and its interaction with Christian thought. Working from the authority of the Scriptures and the conviction that Christianity is true, this course examines the history of physics, emphasizing the interactions of the physics and astronomy with society and religious thought. Two lectures each week. Prerequisite: General education requirements in physical science.

**SOCIAL WORK****SWK 2003. Introduction to Social Work - 3 hours (Fall)**

This course will provide students with a broad overview of the profession of social work. Specific attention will be given to social work's historical background, ethics and values, practice settings, and historical and current social welfare policies.

**SWK/PSY/SOC 2233. Introduction to Research - 3 hours (Fall)**

This course will provide students with an overview of the various research methods in the behavioral sciences. Specific attention will be given to the different methods of assessment, evaluation, and research inquiry found in the fields of psychology, sociology, and social work. Prerequisites: PSY 1013, SOC 1003 *or* SWK 2003.

**SWK 3013. Integrating Faith & Social Work Practice - 3 hours (Fall)**

This course explores the basic tenants of a Christian worldview and compares and contrasts them with the underlying values and theoretical basis of social work. Students will be encouraged to develop personal insight and understanding on how to integrate Christian principles and values into social work practice. Additionally, considerations for social work practice with other faiths likely to be encountered in practice settings will be explored. Prerequisite: Admission to the BSW program.

**SWK 3043. Social Work with Diverse Populations - 3 hours (Spring)**

This course prepares students to work with diverse groups in local and global settings. Identifying and developing skills for culturally competent social work generalist practice will be emphasized in this course. Prerequisite: Admission to the BSW program

**SWK 3063. Human Behavior in the Social Environment I - 3 hours (Fall)**

This course is the first of two Human Behavior and the Social Environment courses required for social work majors. The class focuses on the biological, psychological, and sociological development of individuals across the lifespan, emphasizing a systems perspective. Theoretical frameworks of understanding a person's behavior in their social environment will also be emphasized. Prerequisite: SWK 2003 and admission to the BSW program.

**SWK 3073. Human Behavior in the Social Environment II - 3 hours (Spring)**

This course is the second of two Human Behavior and the Social Environment courses required for social work majors. The course introduces students to knowledge, theories, and concepts about human behavior within the context of groups, organizations, and communities. Special emphasis will be placed on learning and understanding the functions and effects of racial, ethnic and cultural diversity as they relate to macro theories. Prerequisite: SWK 2003 and admission to the BSW program.

**SWK 3113. Social Work Practice I: Helping Skills - 3 hours (Fall)**

This course is the first in a series of four social work practice courses. It will introduce the student to fundamental knowledge and skills necessary for professional generalist social work practice. Prerequisite: SWK 2003 and admission to the BSW program.

**SWK 3123. Social Work Practice II: Individuals - 3 hours (Spring)**

This course is the second in a series of four social work practice courses. The purpose of this course is continued preparation for generalist social work practice with an emphasis and focus on micro level social work practice with individuals. Prerequisite: SWK 3113 and admission to the BSW program.

**SWK 3133. Social Work Practice III: Families and Groups - 3 hours (Fall)**

This course is the third in a series of four social work practice courses. The purpose of this course is continued preparation for generalist social work practice with an emphasis and focus on practice with groups and families. Prerequisite: SWK 3133 and admission to the BSW program.

**SWK 4013. Social Welfare Policy - 3 hours (Spring)**

This course is designed to introduce students to social policy development and policy analysis. Discussion will include the social, political, and economic forces that shape policy. Attention will also be given to major social welfare policies and programs in the United States. Prerequisite: SWK 2003 and admission to the BSW program.

**SWK 4143. Social Work Practice IV: Communities & Organizations - 3 hours (Spring)**

This course is the fourth in a series of four social work practice courses. The purpose of this course is continued preparation for generalist social work practice with an emphasis and focus on practice with communities and organizations. Prerequisite: SWK 3113 and admission to the BSW program.

**SWK 4256. BSW Seminar and Practicum I - 6 hours (Fall)**

This is the first of two seminar and practicum courses designed to assist students to discuss and evaluate their field work experiences. The course will facilitate and reinforce the application of social work values, ethics, knowledge, and skills in field settings. Students will complete 400 hours in their field placement as part of this course. Prerequisite: Admission to the BSW program and completion of SWK 3113, SWK 3123 and SWK 3133 with a minimum of a "C" in each course.

**SWK 4266. BSW Seminar and Practicum II - 6 hours (Spring)**

This is the second of two seminar and practicum courses designed to assist students to discuss and evaluate their field work experiences. The course will facilitate and reinforce the application of social work values, ethics, knowledge, and skills in field settings. Students will complete 450 hours in their field placement as part of this course. Prerequisite: Admission to the BSW program and completion of SWK 3113, SWK 3123, SWK 3133, and SWK 4143 with a minimum of a "C" in each course.

**SOCIOLOGY****SOC 1003. Introductory Sociology - 3 hours (Fall, Spring)**

Survey of major subject areas and principles of sociology. Topics of the nature and development of culture; social aspects of personality; population trends, social classes, institutions and social change.

**SOC/REC 1102. Introduction to Leisure - 2 hours (Fall)**

A basic course which provides a philosophical and conceptual framework of leisure. Theoretical, sociological, historical and spiritual aspects are included. An investigatory approach in which leisure is identified with recreation and other areas of life.

**SOC/PSY 2001. Sophomore Seminar B 1 hour (Fall, Spring)**

This is a topical course emphasizing the content of the major and the APA (American Psychological Association) style of writing.

**SOC 2003. Social Problems - 3 hours (Fall, Spring)**

Study of current social problems of American and world societies. Focus is on the description, causation and solution of these problems. Prerequisite: SOC 1003.

**SOC 2012. Human Diversity - 2 hours (Fall, Spring)**

This course is designed to expose students to the wide range of diverse human perspectives found in our society. Content will focus on cultural influences, global connectedness, and understanding the universality and diversity that characterize humans. Prerequisites: SOC 1003 or PSY 1013.

**SOC/PSY/SWK 2233. Introduction to Research - 3 hours (Fall, Spring)**

This course will provide students with an overview of the various research methods in the behavioral sciences. Specific attention will be given to the different methods of assessment, evaluation, and research inquiry found in the fields of psychology, sociology, and social work. Prerequisites: PSY 1013, SOC 1003 *or* SWK 2003.

**SOC 295(1-3). Special Topics - 1-3 hours (On demand)**

A study of critical issues and topics in sociology not covered in other course offerings. Areas of study will vary from year to year. Students may repeat this course once.

**SOC 2982. Community Project B 2 hours (On demand)**

An experiential course which allows the development of a quasi-volunteer/professional relationship of the student with a local agency, for the purposes of assisting that agency with a specific project related to the mission of that agency. The coordinator of human services or the department chair will assist with arrangements. Prerequisite: Sociology majors only.

**SOC/PSY 3001. Junior Seminar B 1 hour (Fall, Spring)**

This is a topical course emphasizing the career opportunities for behavioral science majors and graduate school preparation. Prerequisite: 64 hours completed.

**SOC 3003. The Family - 3 hours (Fall, Spring)**

A study of family life, dating, marriage and the family life-course. Attention is given to present day problems and trends. Prerequisite: 32 hours completed.

**SOC 3023. Sociology of Gender - 3 hours (Fall, odd years)**

This course is an overview of sociological concepts and perspectives on gender. Prerequisite: 32 hours completed.

**SOC 3033. Family Violence B 3 hours (Spring)**

This course examines the issues of violence in the family and the various implications in both treatment and society's response. Applications of the law in the State of Missouri will also be addressed. Prerequisite: SOC 1003.

**SOC 3063. Community Sociology - 3 hours (Fall)**

This course examines the development of the community and community-based problem solving. Included is a study of the changing rural, urban, and global structures, organizations, services, and demographics. Prerequisite: SOC 1003.

**SOC/PSY 3073. Social Psychology - 3 hours (Fall, Spring)**

Social behavior of individuals and the major processes of social interaction, social influence, group structure, the individual and the system and socialization. Three hours credit in either psychology or sociology (not both). Prerequisites: PSY 1013 or SOC 1003.

**SOC/PSY 3083. Psychological and Sociological Implications of Cognitive Impairments - 3 hours (Spring)**

Definition, diagnosis, classification, perceptual and conceptual evaluation. Multi-disciplinary approach to cognitive impairments. Three hours of credit in either psychology or sociology (not both). Prerequisite: PSY 1013 or SOC 1003.

**SOC/PSY 3243. Elementary Statistics - 3 hours (Fall, Spring)**

Measurement, averages, variability, percentile rank, normal curve, correlation, chi-square and probability related to the behavior sciences. Prerequisites: PSY 1013 or SOC 1003 or EDU 2113 and CIS 1103 or 1033.

**SOC/PSY 4001. Senior Seminar B 1 hour (Fall, Spring)**

This a topical course for behavioral sciences majors, which emphasizes professional development and ethics of the profession and also serves as a cap-stone course for the purposes of integration and assessment. Prerequisite: 64 hours completed.

**SOC/PSY 4003. Understanding Women - 3 hours (J-term, odd years or as needed)**

A course designed to increase awareness of sex roles and their influence on women's sexuality, relationships and mental health. Emphasis is placed on surveying and examining the modern woman's place in society-her roles and experiences as a single woman, wife, mother and career person. Prerequisite: 64 hours completed.

**SOC 4033. Criminology - 3 hours (Spring)**

A study of sociological theories of crime and delinquency, of crime control including punishment and treatment, and of practices and organizations of police, courts, probation and parole departments and prisons. Prerequisite: SOC 1003 and 64 hours completed.

**SOC 4043. Minorities in American Society - 3 hours (Fall)**

Provides an overview of majority/minority relations within the United States, including an in-depth examination of current social problems facing America's racial and ethnic minorities. Prerequisite: SOC 1003.

**SOC/PSY 4053. Dealing with Death and Dying - 3 hours (Fall, Spring)**

An examination of how society and its institutions, the individual and survivors view and are affected by the process of dying and death. Guidelines are provided to enable the students to aid others and themselves in dealing with death and dying. Prerequisite: PSY 1013 or SOC 1003.

**SOC 4063. Sociological Theory - 3 hours (Spring)**

A seminar approach to the study of the history and development of social thought, including contributions of the basic ideas of the major theorists. Prerequisite: 12 hours of sociology.

**SOC 4083. Gerontology - 3 hours (Fall)**

This course is designed to acquaint the student with the theories of aging, the way the aging individual relates to the social systems, adjustment patterns of the aging and societal issues confronting older Americans. Prerequisite: PSY 1013 or SOC 1003.

**SOC/PSY 4233. Research Design and Methods - 3 hours (Fall-Behavioral Science students, Spring-Athletic Training students)**

Intensive analysis of experimental designs and methods of research including measurement issues, ethical considerations, sampling techniques, data-gathering techniques, data analysis and interpretation, presentations and reporting of results. Lab fee \$12. Prerequisites: PSY or SOC 3243.

**SOC/PSY 4333. Child Abuse and Neglect - 3 hours (J-terms)**

A study of child abuse and neglect with consideration given to causes, symptoms, treatment and prevention. A special section is included dealing with the treatment of adult survivors of child abuse. Prerequisite: SOC 1003 or PSY 1013.

**SOC/PSY 4373. Being Human and Addicted (Addictionology) - 3 hours (Fall, odd years)**

A study of the effects of drugs on the human being, issues of physiology, psychology, sociology and religion will be addressed as they relate to chemical dependency. An overview of treatment methods and therapy will be included. Prerequisite: 64 hours completed.

**SOC 495(1-4). Intensive Studies - 1-4 hours (On demand)**

A study of critical issues in sociology that are not covered in other course offerings. Areas of study will vary from year to year. Students may elect to repeat this course. Prerequisite: 12 hours of sociology and 64 hours completed.

**SOC 4963. Field Experience in Gerontology (On demand)**

Involves field experience in an agency that focuses on senior adult related activities and/or service delivery. It is provided to integrate classroom knowledge with hands on activities. Settings are determined according to individual needs and circumstances. Prerequisite: Minimum of C in SOC 4983, 3.00 GPA and 64 hours completed. **Note:** All Gerontology minor course work must be completed prior to enrolling in this course.

**SOC 498(3-6). Internship - 3-6 hours (On demand)**

Internship is designed to provide the upper-level sociology major with supervised field experience in a social services or related area. Prerequisites: 64 hours completed, at least 15 hours of the major, minimum 3.00 GPA. *Graded Pass/Fail.*

**SOC 499(1-3). Independent Studies - 1-3 hours (On demand)**

Advanced studies of specific topics arranged by department chair.

**SPANISH****SPA 1114. Elementary Spanish I - 4 hours (Fall)**

Pronunciation, grammar, reading of simple prose, aural-oral practice.

**SPA 1124. Elementary Spanish II - 4 hours (Spring)**

Continuation of SPA 1114. Prerequisite: SPA 1114.

**SPA 2213. Intermediate Spanish I - 3 hours (Fall)**

Grammar review, simple composition and conversation, and the reading of short narratives. Prerequisite: SPA 1124 or satisfactory placement score.

**SPA 2223. Intermediate Spanish II - 3 hours (Spring)**

Continuation of SPA 2213 with emphasis on reading. Prerequisite: SPA 2213 or satisfactory placement score or two years of high school Spanish.

**SPA 293(1-3). Special Reading in Spanish - 1-3 hours (On demand)**

Readings on specific subjects. A theme will be chosen for study. (TBA with instructor). Prerequisite: SPA 2223.

**SPA 295(1-4). Special Topics - 1-4 hours (On demand)****SPA 3313. Advanced Spanish Composition and Conversation - 3 hours (Fall, even years)**

The writing of themes and practice in grammar, idioms and everyday conversation. Prerequisite: SPA 2223.

**SPA 3323. Hispanic Culture and Civilization - 3 hours (Spring, odd years)**

Spanish and Latin American civilization, customs and culture from its beginning to present times.

**SPA 3333. Survey of Early Spanish Literature - 3 hours (Fall, odd years)**

Spanish literature from the beginning to the eighteenth century. Prerequisite: SPA 3313 or 3323.

**SPA 3343. Survey of Later Spanish Literature - 3 hours (Spring, even years)**

Spanish literature from the eighteenth century to the present. Prerequisite: SPA 3313, 3323 or 3333.

**SPA 495(1-4). Intensive Studies - 1-4 hours****SPA 497(1-3). Symposia - 1-3 hours****SPA 499(1-3). Independent Studies - 1-3 hours****SPIRITUAL FORMATION****SPF 2012. Introduction to Spiritual Formation - 2 hours (Fall, Spring)**

An exploration of the biblical basis of spiritual development and diverse models of Christian spirituality with an emphasis on their contemporary application.

**SPF 295(1-3). Special Topics in Spiritual Formation - 1-3 hours (On demand)**

A focus on special topics in the field of spiritual formation.

**SPF 495(1-4). Intensive Studies in Spiritual Formation - 1-4 hours**

A focus on a special area of interest in the field of spiritual formation or missions. Topics will vary from year to year. (May be taken more than once).

**TELECOMMUNICATION****TEC/COM 1013. Media and Society - 3 hours (Fall, on demand)**

A study of communication strategies in mass media. The history, development and current structures of the media and their effects on society.

**TEC/COM 2043. Television Production I - 3 hours (Fall)**

An introduction to the art of television production. Special attention is given to the language and application of television in the laboratory setting. Course fee \$30.

**TEC/COM 3053. Television Production II - 3 hours (Spring)**

Emphasis is given to writing and producing segments for television newscasts. Prerequisite: TEC/COM 2043. Course fee \$30.

**TEC/COM 3343. Media Production - 3 hours (Fall, On demand)**

Systematic study of audio in media to provide a broad theoretical and practical foundation in techniques related to radio, television, film and music production. Prerequisites: COM 2203.

**TEC 495(1-3). Intensive Studies - 1-3 hours (On demand)**

Selected topics of special interest in the field of television not usually covered by regular courses.

**TEC 4963. Practicum in Television Production - 3 hours (On demand)**

With the skills developed in Television Production I and II, students will produce segments for a television news magazine in the laboratory and for possible airing on the local news channel. Prerequisites: TEC/COM 3053.

**TEC 498(1-6). Internship in Television Production - 1-6 hours (Fall/Spring/Summer)**

(Limit of three (3) hours applied toward major.) Internship in television production is designed to give qualified students an opportunity to work in a television station, production studio, production department of a corporation or a denominational agency.

**TEC 499(1-3). Independent Studies in Telecommunications - 1-3 hours (Fall/Spring/Summer)**

May be used to fulfill upper level hour requirements or for research in telecommunications. Prerequisite: TEC/COM 2043.

**THEATRE****THR 1023. Acting I - 3 hours (Fall)**

Fundamentals of acting techniques. Emphasis on movement and mime.

**THR/FAR 1033. Introduction to Theatre - 3 hours (Fall)**

A study of the history and literature of the theatre with introductory participation in the areas of acting and stagecraft. Emphasis on reading and attending plays. Lab fee \$30.

**THR 1053. Stagecraft - 3 hours (Spring, odd years)**

Basic principles of scenic construction, scenic painting, and lighting and sound techniques.

**THR 2013. Script Analysis - 3 hours (Fall, odd years)**

An investigation of dramatic structure and analysis from the perspective of the director, the actor, and the designer. This course is also designed to introduce students to several major plays in the history of dramatic literature.

**THR 2031. Makeup - 1 hour (Spring)**

Laboratory exercises in the basic fundamentals of stage makeup.

**THR 2043. Introduction to Film - 3 hours (On demand)**

An introduction to experiencing and understanding the cinematic arts. Upon successful completion, students will possess a conceptual framework and vocabulary that enhances their enjoyment of and ability to evaluate a film.

**THR 3013. Stage Management - 3 hours (Spring, odd years)**

A thorough analysis of the technical and organizational aspects of stage management. Emphasis on the stage manager's process, including an overview of general responsibilities and basic conflict resolution concepts.

**THR 3023. Children's Theatre Workshop - 3 hours (On demand)**

Participation in all aspects of children's drama. Emphasis on play selection, staging techniques and acting style.

**THR 3033. Acting II - 3 hours (Spring)**

Advanced acting techniques. Emphasis on motivation, characterization and showmanship. Prerequisite: THR 1023.

**THR 3053. Scene Design - 3 hours (Spring, even years)**

Basic concepts of scene design for the stage. Exploration of scene design and the theatre, scene design as a visual art as well as technical production.

**THR 3063. Costume Design - 3 hours (Spring, odd years)**

A study of the costume design process: research, direction, and rendering of ideas. Emphasis on character analysis. This course also offers a basic exposure to costume construction techniques.

**THR 4003. Lighting and Sound Design - 3 hours (Spring, odd years)**

A study of the process of lighting and sound design. Emphasis on hands-on experience with lighting instruments, and lighting and sound systems.

**THR 4013. Theatre Management - 3 hours (Spring, even years)**

A study of the theory and practice of theatre management in areas of commercial, non-profit, college, and community theatre. Theory and practice of administration for non-profit and commercial theatres.

**THR 4023. Directing of Plays - 3 hours (Fall)**

Principles of directing the various steps of a production, and practice in rehearsing and presenting plays. Prerequisite: THR 1023, THR 1033, and THR 1053.

**THR 4033. American Theatre History - 3 hours (On demand)**

A survey of the history of the American theatre, from the 18th century to the present.

**THR/WRT 4053. The Art and Craft of Playwriting - 3 hours (On demand)**

A study and practicum of the art of playwriting. Emphasis on reading and writing plays.

**THR 4203. The History and Literature of Theatre I - 3 hours (Fall, even years)**

An overview of theatrical practices, innovations, and literature from 2000 BC through the 18<sup>th</sup> century. Emphasis will be placed on an examination of dramatic scripts, primary sources, and received historical narratives as a means for exploring the cultural significance of theatre and performance. Prerequisite: FAR/THR 1033.

**THR 4213. The History and Literature of Theatre II - 3 hours (Spring, odd years)**

An overview of theatrical practices, innovations, and literature from the 18<sup>th</sup> century through the present. Emphasis will be placed on an examination of dramatic scripts, primary sources, and received historical narratives as a means for exploring the cultural significance of theatre and performance. Prerequisite: FAR/THR 1033.

**THR/COM 4311. Senior Capstone - 1 hour (On demand)**

This course is designed as a comprehensive measure of the knowledge and skill students have acquired in their particular communication arts major. There will be two primary dimensions to the capstone course: 1) an opportunity for students to reflect on and undergo assessment of their body of work in their major; and 2) an opportunity to synthesize the knowledge of communication arts theory and practice in a final project performance. The portfolio and presentation will serve to demonstrate whether or not students have successfully completed the work required for their chosen degree. Since the department is so diverse in emphases and specializations, each student will be given an opportunity to design a final project consistent with their interests and experience.

**THR 495(1-3). Intensive Studies - 1-3 hours (On demand)****THR 4963. Practicum - 3 hours (On demand)**

A synthesis experience allowing the student the opportunity to direct or design and construct technical elements for a production of his or her choosing. Prerequisite: THR 1053 or THR 3033 and THR 4023.

**THR 499(1-3). Independent Studies - 1-3 hours (Fall, Spring)**

Advanced studies of specific topics arranged by department chair.

***THEATRE - WORKSHOP COURSES***

Only four (4) credit hours in any one workshop may be earned toward a major. Students enroll in workshops according to classification: (1) Freshman (2) Sophomore (3) Junior (4) Senior.

**THR (1,2,3,4)001. Theatre Performance Workshop - 1 hour (Fall, Spring)**

Open to all students by audition. Rehearsal and performance of a major drama production. Grade is based on attendance, professional attitude and conduct, and performance evaluation.

**THR (1,2,3,4)011. Theatre Production Workshop - 1 hour (Fall, Spring)**

Open to all students. Thirty (30) hours of work on backstage duties and/or technical crews for major drama production is required. Grade is based on successful completion of assigned work, professional attitude and conduct, and evaluation by instructor.

**THR/MUS (1,2,3,4)041. Opera Theatre - 1 hour (Fall, Spring)**

Open to all students by audition. Laboratory for study and performance of operatic solos and ensembles. One major production per semester. Two rehearsals per week.

**THR (1,2,3,4)051. Touring Troupe - 1 hour (On demand)**

Open to all students by audition. Rehearsal and performance of Christian plays, sketches and monologues. Two rehearsals per week and six off-campus performances required per semester.

**THEOLOGY****THE 3023. The Baptist Denomination - 3 hours (Fall, Spring)**

Study of the history, beliefs and denominational programs of Baptists. Prerequisites: BIB 1013, 1023, SPF 2012.

**THE 3113. Christian Doctrine - 3 hours (Fall)**

Analysis and interpretation of the major doctrines of the Christian religion. Prerequisites: BIB 1013, 1023, SPF 2012.

**THE 3463. Survey of Early and Medieval Christianity up to the Eve of the Reformation - 3 hours (Fall, even years)**

Survey of early and medieval Christianity up to the eve of the Reformation. Prerequisites: BIB 1013, 1023, SPF 2012.

**THE 3673. Survey of the History of Christianity from the Reformation to the Present - 3 hours (Spring, odd years)**

Survey of the history of Christianity from the Reformation to the present. Prerequisites: BIB 1013, 1023, SPF 2012.

**THE 4003. Theological Method – 3 hours**

An introduction to issues in the method of a constructive Christian theology, including but not limited to issues in religious epistemology, religious language and theological hermeneutics.

**THE 4033. God and Humanity – 3 hours**

A survey of Christian understanding of God and humanity in their biblical, historical and contemporary expressions, including revelation, scripture, Trinity, creation, providence, humanity in God's image, human nature and sin. Prerequisite: THE 3113.

**THE 4043. Christ and Salvation – 3 hours**

A survey of Christian understandings of Christ and salvation in their biblical, historical and contemporary expressions, including the person of Christ, atonement, justification and other dimensions of salvation. Prerequisite: THE 3113.

**THE 4053. Church and Last Things – 3 hours**

A survey of Christian understandings of the church and last things in their biblical, historical and contemporary expressions, including the nature and mission of the church, the ordinances/sacraments, death, resurrection and eternal life. Prerequisites: THE 3113.

**THE/BIB 4073. New Testament Theology – 3 hours**

An introduction to the discipline of biblical theology as it is undertaken in relation to the New Testament. Included is a discussion of methods, attendant methodological and hermeneutical problems, and possible results in a survey of the theology of the New Testament. Can also be taken for biblical studies credit. Prerequisite: BIB 2093.

**THE 495(1-4). Intensive Studies in Theology - 1-4 hours**

A focus on a special topic, theme or issue in the area of theology. Topics will vary from year to year. (May be taken more than once). Prerequisites: 64 hours completed. (Depending on the topics, there may be a fee.)

**UNIVERSITY STUDIES****UNI 1111. University Seminar - 1 hour (Fall, Spring)**

This course is designed to acclimate students to campus life and to the mission of SBU. It is also designed to develop time management and study skills and explore personality typing and career choices. This course must be taken during the first semester a student attends SBU. Course fee: \$3.

**UNI 1121. Critical Thinking - 1 hour (Fall, Spring)**

This course is designed to promote awareness of a personal value system as well as to promote the use of critical thinking skills in the study of issues in today's society. This course must be taken during the first year a student attends SBU. Prerequisite: UNI 1111.

**WRITING****WRT/ENG 3013. Writing Poetry - 3 hours (Spring, odd years)**

A workshop in the writing of original poetry, based on a study of poetic characteristics and genres. Prerequisite: Completion of the general education requirement in composition.

**WRT/ENG 3353. Advanced Composition - 3 hours (Fall, Spring)**

Advanced expository writing, based on a study of contemporary prose. Prerequisite: Completion of the general education requirement in composition.

**WRT/ENG 4003. Technical Writing - 3 hours (Fall, even years)**

The application of rhetorical principles to the writing of investigative and descriptive reports on scientific and technological subjects. Prerequisite: Completion of the general education requirement in composition.

**WRT/ENG 4013. Writing Short Fiction - 3 hours (Fall, odd years)**

A workshop in short fiction writing utilizing readings from varying fiction genres and peer/instructor feedback. Prerequisite: Completion of the general education requirement in composition.

**WRT/THR 4053. The Art and Craft of Playwriting - 3 hours (On demand)**

A study and practicum of the art of playwriting. Emphasis on reading and writing plays.