

# COURSE DESCRIPTIONS



**he** following section includes the descriptions of the courses offered in our academic curriculum. Courses are listed alphabetically by department, then by course number. Each listing includes the title, applicable prerequisites, a brief description of the course content, number of credit hours awarded for successful completion, and course fees, if any. Clearwater Christian College regularly reviews the appropriateness of each course offered in our curriculum as it relates to the academic objectives for each major and the spiritual objectives of the institution.

## COURSE DESCRIPTIONS

We have assigned an appropriate course prefix for each academic discipline offered as follows:

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## *Courses in Accounting*

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**ACC 200 SURVEY OF ACCOUNTING**

An overview of the basic topics in financial and managerial accounting. Emphasis on how accounting and accounting reports are used by managers and organization stockholders. Credit will not be given for this course taken by business or accounting majors. **3 credits.**

**ACC 201 PRINCIPLES OF ACCOUNTING I**

An introduction to fundamental accounting procedures. The accounting cycle is studied including journalizing and posting transactions, managing payroll, accounting for sales and purchases, and preparing worksheets and financial statements. **3 credits.**

**ACC 202 PRINCIPLES OF ACCOUNTING II**

*Prerequisite: ACC 201.* Continued studies in accounting concepts and procedures with emphasis on accounting for corporations and partnerships and managerial accounting including financial reporting and financial statement analysis. **3 credits.**

**ACC 305 COST AND MANAGERIAL ACCOUNTING**

*Prerequisite: ACC 202.* An in-depth study of the role of the modern management accountant and the application of traditional and activity-based cost analysis to diverse industries and manufacturing operations. Characteristics of business costs are analyzed and the principles of various cost systems are examined. Emphasis is given to the use of cost systems and data in strategic and managerial decision making. **3 credits.**

**ACC 307 FINANCIAL ACCOUNTING AND REPORTING I**

*Prerequisite: ACC 201, 202.* An in-depth study of financial statement preparation, accounting theory, and accounting practice for current assets and non-current assets, and related income effects. The application of generally accepted accounting principles in financial accounting and reporting. **4 credits.**

**ACC 308 FINANCIAL ACCOUNTING AND REPORTING II**

*Prerequisite: ACC 307.* Continuation of ACC 307 with emphasis on accounting theory and practice for long term liabilities and shareholder equity accounts, and related income effects. **4 credits.**

**ACC 405 ADVANCED COST ACCOUNTING**

*Prerequisites: ACC 305.* Builds on the material studied in Cost and Managerial Accounting, ACC 305. This course is a more in-depth look at specialized topics such as joint products and byproducts, job order costing, transfer pricing, and quantitative methods applied to cost accounting such as linear programming, regression analysis, and other statistical tools. **3 credits.**

**ACC 410 FEDERAL TAX ACCOUNTING**

*Prerequisites: ACC 201, 202.* Introduction to the federal income tax structure. Concepts and methods of determining the taxable income of individuals, allowed deductions, credits, and property transactions; the interpretation and application of the IRS Code and regulation; tax computations and filing. **3 credits.**

## COURSE DESCRIPTIONS

### **ACC 411 ADVANCED TAXATION**

*Prerequisite:* ACC 410. Taxation of corporations. Special problems in the taxation of corporations, individuals, partnerships, fiduciaries, estate and gift taxes. Tax research techniques. Includes special topics. **3 credits.**

### **ACC 414 AUDITING**

*Prerequisite:* ACC 308. The legal and professional responsibilities of accountants as auditors. Includes the theory of auditing and audit program development; generally accepted auditing standards of evidence, review, and controls. Review of internal controls, audit procedures, and development of audit programs for various types of businesses; consideration of the auditor's professional and ethical standards. **3 credits.**

### **ACC 415 ADVANCED AUDITING**

*Prerequisite:* ACC 414. Builds on Auditing, ACC 414, to develop and integrate advanced auditing subjects and developments in current practices. Special audit examination topics and audit technique issues are presented together with a discussion of current issues in the profession. **3 credits.**

### **ACC 420 ADVANCED ACCOUNTING**

*Prerequisite:* ACC 308. Accounting theory and practice for business combinations, consolidation, intercompany transactions, foreign operations, statements of cash flow, and other selected topics. **3 credits.**

### **ACC 422 ACCOUNTING INFORMATION SYSTEMS**

*Prerequisites:* ACC 308. Problems and issues related to computer-based accounting information systems. Presents fundamental principles of systems development for performing general financial accounting and management accounting functions with emphasis on internal control. **3 credits.**

### **ACC 425 ACCOUNTING FOR GOVERNMENT AND NOT-FOR-PROFIT ENTITIES**

*Prerequisite:* ACC 308. An introduction to fund accounting and the reporting requirements for not-for-profit/government entities. **3 credits.**

### **ACC 441 ADVANCED ACCOUNTING THEORY AND PRINCIPLES**

*Prerequisites:* ACC 414, 415, BUS 303, Senior status. Comprehensive review of the application of accounting theory and principles using specific problems and the development of approaches to problem solving. **3 credits.**

### **ACC 460 ACCOUNTING INTERNSHIP**

*Prerequisites:* Senior status, division approval. A semester of direct work experience in a local organization or CPA firm. The student is under the supervision of the business faculty of the College as well as the immediate supervisor within the participating organization. See BUS 460 for a description of the purposes and supervision of these activities. **3 credits.**

## *Courses in Air Force ROTC*

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- AFR 110 THE AIR FORCE TODAY: ORGANIZATION AND DOCTRINE**  
Introduction to the Air Force in the contemporary world through a study of its total force structure and mission. 1 credit.
- AFR 112 THE AIR FORCE TODAY: STRUCTURE AND ROLES**  
A study of the strategic offensive and defensive forces, general purpose forces, and aerospace support forces that make up the Air Force of today. **1 credit.**
- AFR 200 AIR FORCE ROTC LEADERSHIP LABORATORY**  
*Leadership Laboratory is required for each of the Aerospace Studies courses.* It meets one hour and 45 minutes per week. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations. **0 credit.**
- AFR 213 AEROSPACE TO AIR AND SPACE I**  
*Co-requisites: AFR 200, AFR 280.* A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWI and WWII and how it affected the evolution of air power concepts and doctrine. **1 credit.**
- AFR 214 AEROSPACE TO AIR AND SPACE II**  
*Co-requisites: AFR 200, AFR 280.* A historical review of air power employment in military and non-military operations in support of national objectives. Emphasis is on the period from post WWII to present. **1 credit.**
- AFR 280 ENHANCED PHYSICAL FITNESS TRAINING**  
*Required of all students in AFR 200-, 300-, and 400-level classes.* It meets once per week for one and a half hours. Concentrates on motivational physical fitness, healthy lifestyle, and cadet esprit. **0 credit.**
- AFR 322 AIR FORCE LEADERSHIP AND MANAGEMENT I**  
*Co-requisites: AFR 200, AFR 280.* An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer's professional skills as an Air Force officer (officership). The basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts. **3 credits.**
- AFR 323 AIR FORCE LEADERSHIP AND MANAGEMENT II**  
*Co-requisites: AFR 200, AFR 280.* A continuation of the study of Air Force advancement and leadership. Concentration is on organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes. **3 credits.**

## COURSE DESCRIPTIONS

### **AFR 420 NATIONAL SECURITY AFFAIRS AND PREPARATION FOR ACTIVE DUTY I**

*Co-requisites: AFR 200, AFR 280.* A study of the Armed Forces as an integral element of society, with an emphasis on American civil-military relations and context in which U.S. defense policy is formulated and implemented. Special themes include societal attitudes toward the military and the role of the professional military leader-manager in a democratic society. **3 credits.**

### **AFR 421 NATIONAL SECURITY AFFAIRS AND PREPARATION FOR ACTIVE DUTY II**

*Co-requisites: AFR 200, AFR 280.* A continuation of the study of the Armed Forces in contemporary American society. Concentration is on the requisites for maintaining adequate national security forces; political, economic, and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; the variables involved in the formulation and implementation of national security policy; and military justice and its relationship to civilian law. **3 credits.**

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## *Courses in Army ROTC*

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### **ARM 100 ORGANIZATION OF THE ARMY AND ROTC**

Make your first peer group at college committed to performing well and enjoying the experience. Increase self-confidence through team study and activities in basic drill, physical fitness, rappelling, first aid, and making presentation. Learn fundamentals of leadership. **1 credit.**

### **ARM 140 FUNDAMENTALS OF LEADERSHIP DEVELOPMENT**

Reinforce self-confidence through participation in physically and mentally challenging exercises. Develop communication skills. Relate organizational ethical values to the effectiveness of a leader. **1 credit.**

### **ARM 260 MILITARY TRAINING MANAGEMENT AND INSTRUCTIONAL TECHNIQUES**

Learn and apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams. Develop skills in oral presentations, writing, planning, coordination of group efforts, fundamentals of ROTC's Leadership Development Program. **1 credit.**

### **ARM 261 LEADERSHIP ASSESSMENT**

Introduction to individual and team aspects of military tactics in small unit operations, radio communications, making safety assessments, movement techniques, planning for team safety/security and methods of pre-execution checks. Learn techniques for training others as an aspect of continued leadership development. **1 credit.**

**ARM 261L- LEADERSHIP LABORATORY**

**268L** *Required with all classes.* Involves leadership responsibilities for the planning, coordination, execution, and evaluation of various training and activities. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions. **0 credit.**

**ARM 330 SMALL UNIT OPERATIONS**

*Prerequisite: Permission of Department.* Series of practical opportunities to lead small groups, receive personal assessments and encouragement, and lead again in situations of increasing complexity. Uses small unit operations and opportunities to plan and conduct training for lower division students both to develop such skills and practicing leading. **3 credits.**

**ARM 340 LEADERSHIP FUNDAMENTALS—TACTICS AND CAMP PREPARATION**

*Prerequisite: Permission of Department.* Analyze tasks; prepare written or oral guidance for team members to accomplish tasks. Delegate tasks and supervise. Plan for and adapt to the unexpected organizations under stress. Examine and apply lessons from leadership case studies. Examine importance of ethical performance. **3 credits.**

**ARM 441 ARMY AS A PROFESSION**

*Prerequisite: Permission of Department.* Designed to prepare cadets for duty as commissioned officers. Instruction centers around proficiency/familiarization with the military justice system, military administration, the Officer Professional Management System, international laws of war, and principles. **2 credits.**

**ARM 442 SEMINAR IN MILITARY LEADERSHIP AND MANAGEMENT**

*Prerequisite: Permission of Department.* Provides a basic understanding of the professional soldier's responsibilities to the Army and the nation. Attempts to improve ethical decision-making skills through an examination of the need for ethical conduct, greater awareness and sensitivity to ethical issues, and the opportunity to apply these abilities in real world case situations. Included are the seminars to acquaint the new lieutenant with his/her relationship to NCO's, company grade officers, and senior officers. **3 credits.**

**ARM 493 ADVANCED DIRECTED STUDY AND RESEARCH**

*Prerequisite: CI and permission of Professor of Military Science.* Intensive individual study in a particular aspect of military science that is not covered in regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal. **1-3 credits.**

*Courses in Bible*

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**BIB 101 OLD TESTAMENT SURVEY**

A brief summary and introduction to each book of the Old Testament, tracing the chronological development of the nation of Israel. **3 credits.**

## COURSE DESCRIPTIONS

### **BIB 103 NEW TESTAMENT SURVEY**

A foundational survey of the world as it existed in the New Testament times. Primary focus is on the content of the New Testament with emphasis on the special characteristics and the key passages of each book. **3 credits.**

### **BIB 201 LIFE OF CHRIST**

A harmonistic chronological study of the significant events in the earthly life and ministry of Jesus Christ from His incarnation to His ascension. **3 credits.**

### **BIB 206 MODERN RELIGIOUS ISSUES**

*Prerequisites: BIB 101, 103.* Analysis of the ecumenical movement, its history, leaders (past and present), and projected effect on fundamentalism. **2 credits.**

### **BIB 221 ACTS**

*Prerequisite: BIB 103.* A historical and topical study of the life and message of the early church as recorded in the book of Acts. Particular attention is given to the conversion of the Apostle Paul and his missionary outreach. **3 credits.**

### **BIB 254 PAULINE EPISTLES I**

*Prerequisite: BIB 103.* A study of the major themes and doctrines of Galatians, I & II Corinthians, and I & II Thessalonians. Special emphasis on Law and Grace, spiritual gifts, and the Second Coming. **3 credits.**

### **BIB 255 PAULINE EPISTLES II**

*Prerequisite: BIB 103.* A study of the major themes and doctrines of the Prison and Pastoral Epistles. Special emphasis on the believer's position in Christ and the unique ministry of the local pastor. **3 credits.**

### **BIB 301 BIBLICAL INTRODUCTION - OLD TESTAMENT**

*Prerequisite: BIB 101.* A survey of the inspiration, canon, text, and versions of the Old Testament. Includes a general introduction to the Old Testament and a special consideration of each book relative to questions of date and authorship. Some emphasis is given to the issues raised by the destructive claims of higher criticism, and answers are given based on the conservative position. **3 credits.**

### **BIB 302 BIBLICAL INTRODUCTION - NEW TESTAMENT**

*Prerequisite: BIB 103.* A survey of the development and characteristics of the language, canon, and text of the New Testament as well as the authorship, date, place of writing, original recipients, occasions, purpose, and special problems of the individual books. **3 credits.**

### **BIB 307 COMPARATIVE RELIGIONS**

A comparative study of the world's major religions, their origins, histories, beliefs, and practices. Special emphasis is placed on their contrast with Christianity. **3 credits.**

### **BIB 308 CULTS**

A survey of the major cults, including new groups, their origins, histories, doctrines, and practices. Contrasts with Christianity are also included. **3 credits.**

## COURSE DESCRIPTIONS

- BIB 332 MAJOR PROPHETS**  
*Prerequisite: BIB 101.* An analytical study of the historical backgrounds and major prophetic messages of Isaiah, Jeremiah, Lamentations, Ezekiel, and Daniel. **3 credits.**
- BIB 406 METHODS OF BIBLE STUDY AND TEACHING**  
*Prerequisites: BIB 101, 103.* A study of the principles used in the interpretation of the Scriptures and the objectives and methods to be used in creative Bible teaching. Illustrations from both the Old and New Testaments are used in the study. **3 credits.**
- BIB 411, 412 BIBLE DOCTRINES I & II**  
*Prerequisites: BIB 101, 103.* A systematic study of the doctrines of the Christian faith, including Bibliology, Theology, Christology, Pneumatology, Anthropology, Hamartiology, Soteriology, Ecclesiology, Angelology, and Eschatology. **3 credits each.**
- BIB 430 APOLOGETICS**  
The course focuses on the material and means by which Christians can answer the most common arguments against Christianity. Topics include some history of the field, different apologetic methods, confronting contemporary culture, forming a Biblical worldview, understanding opposing worldviews, science and faith, the problems of evil and suffering, etc. **3 credits.**
- BIB 452 ROMANS**  
*Prerequisite: BIB 103.* A contextual study of the book of Romans. Emphasis is placed on justification, sanctification, and Christian responsibilities. **3 credits.**
- BIB 456 HEBREWS**  
*Prerequisite: BIB 103.* A contextual study of the book of Hebrews with emphasis on the superiority of Christ, His high priestly work, and the warnings and encouragements concerning Christian behavior. **3 credits.**
- BIB 471-473 ADVANCED DIRECTED STUDY AND RESEARCH**  
*Prerequisite: Senior standing and permission of department.* Intensive individual study in a particular area of the Bible or theology that is not covered in the regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal. **471 = 1 credit; 472 = 2 credits; 473 = 3 credits.**
- BIB 491-492 BIBLE SEMINAR I & II**  
A capstone course for all Bible, Pastoral Studies, and Church Ministries majors designed to summarize and review the main material covered by the Bible Department over four years of study. Class time both semesters will also be made available to visiting pastors, missionaries, and evangelists who can provide insight into Christian ministry through their unique experiences. **1 credit each.**

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### *Courses in Business*

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- BUS 201 MANAGEMENT PRINCIPLES**  
Addresses the nature of management work, management theories, the organization system, and managing for high performance. Emphasis is placed on the three basic management skills: goal setting, decision making, and interpersonal relations. **3 credits.**

## COURSE DESCRIPTIONS

### **BUS 203 BUSINESS COMMUNICATIONS**

*Prerequisites: ENG 101, 102, COM 110.* Designed to teach the mechanics and principles of effective business correspondence: memorandums, letters, and reports; letterhead design; persuasive speeches; group participation; and international and cultural barriers to communication. **3 credits.**

### **BUS 302 MARKETING PRINCIPLES**

*Prerequisites: ACC 202, BUS 201, BUS 311, ECO 201.* An introduction to global marketing and the strategic concept of marketing. This study focuses on three vital and essential areas of principles of marketing—customer value and the purpose and task of marketing; competitive or differential advantage as the reality of marketing; and focus as the means for achieving customer value and competitive advantage. **3 credits.**

### **BUS 303 BUSINESS LAW**

*Prerequisite: Junior status.* A study of the nature, classification, and characteristics of law, with an introduction to the legal system and the legal environment of business. Examines contract rights and remedies, sales, property, bailments, and commercial paper. **3 credits.**

### **BUS 304 ADVANCED BUSINESS LAW**

*Prerequisite: BUS 303.* Builds on Business Law, BUS 303, in the further study of agency and employment law, corporations, partnerships, risk-bearing and transference devices, property, creditor and debtor rights, and remedies. **3 credits.**

### **BUS 305 ORGANIZATIONAL BEHAVIOR**

*Prerequisite: BUS 201.* Organizational structure and functioning, behavior effects of power and autonomy, formal organization, leadership, motivation, communication, team building, recruitment and hiring, performance evaluation. **3 credits.**

### **BUS 311 BUSINESS STATISTICS**

Introduction to statistics, probability distributions, the binomial and normal distributions, sampling, estimation and tests of hypotheses, regression and correlation, and Bayesian decision theory. **3 credits.**

### **BUS 406 INNOVATION AND ENTREPRENEURSHIP**

*Prerequisites: ACC 202, BUS 100.* This course introduces students to the role of innovation in the venture creation process. The relative importance of innovation in launching new entrepreneurial businesses is studied. Students prepare original research studies to identify commercial innovations in successful entrepreneurship ventures and examine the innovative processes and conditions leading to the successful introduction of new products and services in the market place. **3 credits.**

### **BUS 421 BUSINESS STRATEGY AND POLICY**

*Prerequisite: Senior status.* A capstone course structured to synthesize concepts, principles, and skills learned in individual business courses. This course concerns strategic direction—the long-term vision for an organization. The primary focus is on managers and their responsibility to make long-term decisions affecting the future performance of an organization. Strategic management is not taught as analysis or planning but rather the determination of purpose and setting corporate direction. Contemporary business issues concerning the strategic process and implementation of policies are examined from secular and Biblical viewpoints primarily through the use of case studies. This course includes a simulated business game competition. **3 credits.**

**BUS 451 AOM INTERNSHIP**

*Prerequisites: Senior status, division approval, required of all AOM majors.* Fourteen 40-hour weeks of practical training and direct work experience in a local organization. The student is under the supervision of the business faculty of the College as well as the immediate supervisor within the participating organization. The value of working in a practical, hands-on business environment is of utmost importance in putting theory into practice. Students will be required to submit a paper describing what they learn through their work experience. The employer will be asked to submit a report on the student's job performance. **12 credits.**

**BUS 460 BUSINESS INTERNSHIP**

*Prerequisites: Senior status, division approval.* A semester of work experience in a local organization under the supervision of the College Business faculty and a supervisor within the participating organization. The value of working in an actual business environment is of utmost importance in applying theory to practice. Student work reports are required to document and review their learning experiences. Employers also report on the student's job performance. **3 credits.**

**BUS 490 ADMINISTRATIVE OFFICE MANAGEMENT**

*Prerequisites: Junior/Senior status, professor approval.* A capstone course designed to study duties and responsibilities of the administrative office manager in business and professional offices. Focus is given to job analysis, staffing, appraisals, motivation, human relations, equipment, and facility design. **3 credits.**

*Courses in Church Ministries*

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**CHU 121 INTRODUCTION TO CHRISTIAN CAMPING**

A program designed to introduce students to camping fundamentals through a combination of classroom sessions and field experience gained through eight (8) weeks of summer camp experience. Only those camps previously approved by Clearwater Christian College will be acceptable for the field experience. **3 credits.**

**CHU 201 INTRODUCTION TO CHURCH MINISTRIES**

This course is the foundation for the major. It covers the fundamental principles of Christian education including objectives, development, principles, problems, methods, materials, and programs. **3 credits.**

**CHU 230 THE CHRISTIAN HOME**

Passages of Scripture that provide the Biblical basis for the traits of a healthy Christian home are examined. The various traits examined will be the commitment, communication, calendar, charm, confidence, celebration and composure of the Christian home. **3 credits.**

**CHU 302 HOMILETICS**

*Prerequisite: COM 110.* An introductory study of the preparation and delivery of sermons, with special emphasis on kinds, content, and sources of material for sermons. Attention will be given to the actual practice of the things presented in class. **2 credits.**

## COURSE DESCRIPTIONS

### **CHU 303 PASTORAL CARE**

This course is designed to deal with the practical aspects of the ministry, such as the call to the ministry, ordination, home and hospital visitation, weddings, funerals, and setting up special services. In addition, the minister's role in personal counseling will be studied. **2 credits.**

### **CHU 304 COUNSELING FOR CHRISTIAN WORKERS**

This course covers Biblical counseling techniques which may be used in training Christian workers for effective counseling. Emphasis will be placed on Scripture as the authority for helping people to cope with real-life problems. The course will also stress the integration of counseling as a part of the discipleship ministry of the local church. **3 credits.**

### **CHU 321 CHRISTIAN EDUCATION OF YOUTH**

This course examines the characteristics and needs of youth. Spiritual objectives, methods and materials to be used in local church work will be presented. **2 credits.**

### **CHU 401, 402 PASTORAL PRACTICUM**

Senior Pastoral Studies majors will be assigned a local church in which to intern both first and second semesters. This is to provide valuable on-the-job training to the future pastor. The student will be under the leadership of the local pastor to be trained in such areas as visitation, preaching, administration, and leadership. **0 credit each.**

### **CHU 411 CHURCH ADMINISTRATION**

The focus of this course will be on the structural organization and administration of the church as seen in its constitutions, boards, finances, and other responsibilities. Special attention will be given to the duties of the individuals who work in these different capacities. **3 credits.**

### **CHU 421 SUNDAY SCHOOL ADMINISTRATION**

This course is designed to plan and implement a well-ordered Sunday school program. Planning, implementation, teaching, materials, and leadership are considered. **2 credits.**

## *Courses in Computer Information Science*

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### **CIS 100 INTRODUCTION TO COMPUTER INFORMATION SYSTEMS**

An introduction to computers and data processing taught as a general education course for all students. Students will be screened for entry level proficiency. Prerequisite for all other computer courses. Course fee: \$40. **3 credits.**

### **CIS 201 APPLICATION PROGRAMMING I**

*Prerequisite:* CIS 100. A computer programming course using structured design techniques. Course fee: \$40. **3 credits.**

### **CIS 202 APPLICATION PROGRAMMING II**

*Prerequisites:* CIS 100, 201. This course seeks to improve the student's ability to design and develop software using the methods of an object-oriented, event-driven language. Course fee: \$40. **3 credits.**

## COURSE DESCRIPTIONS

- CIS 250 ADVANCED MICROCOMPUTER APPLICATIONS**  
*Prerequisite: CIS 100.* This course involves word processing, electronic mail, electronic spread sheets, graphics packages, file handling, and other office automation concepts. Course fee: \$40. **3 credits.**
- CIS 300 DATABASE DESIGN CONCEPTS I**  
*Prerequisites: CIS 100, 201, 250.* A course emphasizing database design and programming in a database environment. Course fee: \$40. **3 credits.**
- CIS 301 DATABASE DESIGN CONCEPTS II**  
*Prerequisites: CIS 100, 201, 250, 300.* This course is a continuation of the CIS 300 course, further developing the student's ability to design and develop complex databases. Course fee: \$40. **3 credits.**
- CIS 320 STRUCTURED PROGRAMMING IN OBJECT-ORIENTED LANGUAGES**  
*Prerequisites: CIS 100, 201 and CIS 202 or MAT 360.* This course provides structured programming in object-oriented languages, including data structures and algorithms with their properties and methods, functions, inheritance, abstract datatypes, and polymorphism. Course fee: \$40. **3 credits.**

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### *Courses in Communication Arts*

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- COM 110 FUNDAMENTALS OF COMMUNICATION**  
Consideration of the basic principles of human communication, including composition and delivery of public speeches, verbal and nonverbal communication elements, audience analysis and adaptation, interpersonal, small group and mass communication. Preparation and presentation of various types of speeches. **3 credits.**
- COM 121-126 NEWSPAPER PRODUCTION**  
*Prerequisite: Consent of instructor.* Workshop in publication of student newspaper. Staff assignments in reporting, editing, photography, advertising. Minimum of 15 hours work with the student newspaper per semester required for one hour credit. May be repeated for a total of six credits. A maximum of six hours of COM 121-126 or COM 410-412 credit may be applied toward production major requirements; maximum of three hours credit toward production minor requirements. **1 credit each.**
- COM 215 MASS COMMUNICATION**  
*Prerequisite: COM 110.* A study of the contemporary mass media in our society. Focus on the nature, role, and influence of radio, television, films, newspapers, magazines, books, and the internet. **3 credits.**
- COM 220 INTERPERSONAL COMMUNICATION**  
*Prerequisite: COM 110.* Concentrates on the building of interpersonal relationships by developing knowledge and skills in self-concept, perception, emotions, language, non-verbal communication, listening, relationship initiation and management, and conflict resolution. Provides theory instruction, experience analysis, and practical exercises. **3 credits.**

## COURSE DESCRIPTIONS

### COM 235 VOICE AND DICTION

*Prerequisite:* COM 110. Voice improvement through knowledge of anatomical and physiological bases of the normal voice. Emphasis on breathing, projection, articulation, and pronunciation through class discussion and structured practice drills. **3 credits.**

### COM 240 ACTING I

*Prerequisite:* COM 110. Focuses on an understanding of acting techniques with emphasis on movement, discipline, concentration, and projection. Students investigate the creation of a character in preparation for acting in the classroom. **3 credits.**

### COM 241 ACTING II

*Prerequisites:* COM 110, 240, or consent of instructor. The study and application of the acting process to period works, including Greek tragedy, Shakespeare, comedy, and realism. **3 credits.**

### COM 255 COMMUNICATION THEORY

*Prerequisite:* COM 110. Introduction to speech communication theory. Examination of history and theoretical issues as a basis for understanding applied communication areas. **3 credits.**

### COM 260 DRAMATIC PRODUCTION I

*Prerequisite:* COM 110. An introduction to the backstage crafts of play production, intended to give the student a broad understanding of the basic principles and technical procedures used in the design of scenery, lighting, and sound. **3 credits.**

### COM 261 DRAMATIC PRODUCTION II

*Prerequisites:* COM 110, 260. An introduction to the backstage crafts of play production, intended to give the student a broad understanding of the basic principles and technical procedures used in costumes and makeup. **3 credits.**

### COM 310 ARGUMENTATION AND DEBATE

*Prerequisite:* COM 110. An examination of the principles of analysis, reasoning, evidence, organization, and logical structure in oral and written discourse with special attention given to fallacies and tests of evidence. Emphasis is placed on the methodology of demonstrating and defending a position before an audience. **3 credits.**

### COM 315 WRITING FOR MEDIA

*Prerequisites:* COM 110, 215 or consent of instructor. Experience in writing in media formats, including print, radio, and television. Develops critical awareness and analytical attitude toward mass media writing, and stresses imagination and creative writing skills. Frequent written assignments in and out of class. **3 credits.**

### COM 320 COMMUNICATION AND COGNITION

*Prerequisite:* COM 110 or consent of instructor. A study of language, communication, and thought focusing on the relation of mental constructs (i.e., the sensory register, pattern recognition, attention, encoding, semantic processing and conceptualization) to language development, production, processing, and communication skills acquisition. **3 credits.**

**COM 325 VOICE AND ARTICULATION**

*Prerequisite:* COM 110, 240 and ENG 312 or consent of instructor. Study of the principles of play direction including play selection, analysis, and patterning of auditory and visual elements of production, culminating in the direction of a one-act play. **3 credits.**

**COM 330 ORAL INTERPRETATION OF PROSE**

*Prerequisite:* COM 110. Focuses on the development of techniques involved in the performance of literature (prose, fiction, non-fiction, and Biblical texts) including controlling voice quality, using facial expression and body movement to enhance literature performance and practicing effective characterization. **3 credits.**

**COM 331 ORAL INTERPRETATION OF POETRY AND DRAMA**

*Prerequisites:* COM 110. Focuses on the development of techniques involved in the performance of poetic and dramatic literature including effective characterization through voice and body and appropriate use of rhyme and rhythm. **3 credits.**

**COM 335 GROUP INTERPRETATION**

*Prerequisite:* COM 330. A study of criteria employed in the selection and adaptation of prose, poetry, and drama for group performance, using oral interpretation skills. Includes practical training in preparation and performance. **3 credits.**

**COM 340 NONVERBAL COMMUNICATION**

*Prerequisite:* COM 220 or consent of instructor. Study of nonverbal factors that influence communicative interaction (i.e., facial expression, eye contact, gestures and posture, use of space, touch, and vocal qualities). Emphasis is placed on the importance of non-verbal cues in impression formation and management, persuasion, intercultural and gender communication and various other contexts. **3 credits.**

**COM 410- DRAMA PERFORMANCE ACTIVITY**

**412** Practicum for support of major college productions in all areas, including acting and technical crews. A maximum of six hours of COM 121-126 or COM 410-412 credit may be applied toward production major requirements; maximum of three hours credit toward production minor requirements. **410 = 1 credit; 411 = 2 credits; 412 = 3 credits.**

**COM 430 PLAYWRITING I**

*Prerequisites:* COM 240 and ENG 312 for majors, or consent of instructor. A study of the principles of dramatic construction and practice in the writing of two one-act plays. May be repeated for credit one time for writing a full-length play. **3 credits.**

**COM 440 COMMUNICATION ARTS FIELD STUDY**

*Prerequisite:* COM 110. Off-campus study trips to various communication arts sites. **3 credits.**

**COM 460 COMMUNICATION ARTS INTERNSHIP**

*Prerequisites:* Junior or Senior status; department approval. A semester working under field conditions for 150 hours in a communication-related industry (i.e., public relations, radio and television broadcasting, advertising, print media, or journalism). **3 credits.**

## COURSE DESCRIPTIONS

### COM 491 COMMUNICATION ARTS SEMINAR

*Prerequisite: Senior standing.* Capstone course providing interaction of faculty with advanced students in areas of communication arts. **3 credits.**

### COM 495 COMMUNICATION ARTS RECITAL I

Senior communication arts recital. Students are graded on an *S/U* basis. Recital fee: \$100. **1 credit.**

### COM 496 COMMUNICATION ARTS RECITAL II

Preparation and delivery of senior communication arts recital. Recital fee: \$100. **1 credit.**

**NOTE:** All recital lessons have a \$440 course fee per semester.

## *Courses in Economics*

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### ECO 200 ECONOMIC CONCEPTS

This course is designed to provide an introduction to the study of macroeconomics, with particular emphasis on the fundamentals of macroeconomic theory, the practical application of macroeconomic theory to current issues, and the relationship between economic science and other social sciences. **3 credits.**

### ECO 201 PRINCIPLES OF ECONOMICS I

This course is designed to provide a rigorous introduction to the study of macroeconomics, with particular emphasis on the fundamentals of macroeconomic theory, the basics of macroeconomic policy, and the practical application of macroeconomic theory to current issues. **3 credits.**

### ECO 202 PRINCIPLES OF ECONOMICS II

This course is designed to provide a rigorous introduction to the study of microeconomics, with particular emphasis on the fundamentals of microeconomic theory, the basics of microeconomic policy, and the practical application of microeconomic theory to current issues. **3 credits.**

### ECO 302 MANAGERIAL ECONOMICS

This course develops the art of abstracting cause and effect “irrefutables” from human actions. Content includes a strong emphasis on case studies and the uniquely developed power of marginal analysis. **3 credits.**

## *Courses in Education*

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### EDU 103 HISTORY AND PHILOSOPHY OF EDUCATION

A beginning level survey required of all education majors which serves as a prerequisite for all other education courses. Explores the history and principles of Western and American education. Surveys the program and function of all levels of education from preschool through higher education. Studies various philosophies of education and their relation to the Christian world-view. Applications of the Christian philosophy to learning and teaching methodology. **3 credits.**

- EDU 202 CURRICULUM AND INSTRUCTION**  
 Principles of developing curriculum and an analysis of the content and construction of curricula available in various grade levels and subject areas. Emphasis in classroom methods, materials, and development of lesson plans are included. Students will develop their philosophy for teaching in this course. **3 credits.**
- EDU 210 INTRODUCTION TO ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)**  
*Prerequisite: EDU 202.* An anchor course to provide students with an overview of the following five state mandated areas: Methods of Teaching ESOL, ESOL Curriculum and Materials Development, Cross-Cultural Communication and Understanding, Applied Linguistics, and Testing and Evaluation of ESOL and having an understanding of the 25 ESOL Performance Standards. Some field experience is required. **3 credits.**
- EDU 235 TECHNOLOGY IN EDUCATION**  
 Introduction to computer technology and its role in the teaching and learning processes. Topics include educational software, ethical and social issues, hardware, interactive multimedia, models for integrating technology into instruction, productivity tools, and telecommunications. **3 credits.**
- EDU 272 EDUCATIONAL PSYCHOLOGY**  
*Prerequisite: PSY 210.* Introduces concepts, principles, and research methods of the teaching-learning process. Includes areas of learning and motivation, teaching methods, practices and styles, student characteristics, and cultural differences as related to behavior in the classroom. **3 credits.**
- EDU 305 DRAMA WITH CHILDREN**  
*Prerequisite: Junior standing.* A historical and theoretical study of the artistic and educational uses of drama with children, instruction in producing plays for children, adapting children's literature, and using drama in the church and Christian school. Course fee: \$20. **3 credits.**
- EDU 307 LITERATURE IN EARLY CHILDHOOD EDUCATION**  
*Prerequisite: Junior standing.* This course develops knowledge of literature for younger children (0-8 years) and methodologies and strategies for utilizing literature to teach literacy in content areas of the early childhood curriculum. Emphasis on thematic units and incorporating children's literature throughout the curriculum. **3 credits.**
- EDU 310 CHILDREN'S LITERATURE**  
 Evaluation and review of children's literature. Critical analysis of format and illustrations in light of purpose and philosophy of the author. Teaching techniques and uses of literature in the elementary classroom. **3 credits.**
- EDU 311 HEALTH AND PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL CHILD**  
*Prerequisite: EDU 202.* A study of the importance of health and physical activity for the elementary school student. Knowledge, attitudes and behaviors necessary for a healthy lifestyle will be covered. **2 credits.**

## COURSE DESCRIPTIONS

### **EDU 312 TEACHING READING IN THE SCHOOL**

*Prerequisites:* EDU 202, 272. Examination of methods and materials in the most widely used reading curriculums with a critical analysis of their strengths and weaknesses. Application of the techniques of teaching reading in the elementary classroom. **3 credits.**

### **EDU 313 ELEMENTARY MUSIC METHODS**

*Prerequisites:* EDU 202, 272. Special methods in teaching K-6th grade music for the music education major. Orff and Kodaly methods as well as organization of band, string, and vocal programs on the elementary level are emphasized. **3 credits.**

### **EDU 314 METHODS OF TEACHING ELEMENTARY LANGUAGE ARTS**

*Prerequisites:* EDU 272. Materials, methods, and techniques of instruction in elementary language arts including oral and written communication and developing visual representing skills. **3 credits.**

### **EDU 315 METHODS OF TEACHING ELEMENTARY SOCIAL STUDIES**

*Prerequisite:* EDU 103, 272. Materials, methods, and techniques of instruction in elementary social studies. **3 credits.**

### **EDU 316 METHODS OF TEACHING ELEMENTARY MATHEMATICS**

*Prerequisites:* EDU 103, 272. Materials, methods, and techniques of instruction in elementary mathematics, and sequential developmental skills to include the real number system and problem solving. **3 credits.**

### **EDU 318 METHODS OF TEACHING ELEMENTARY SCIENCE**

*Prerequisites:* EDU 272. Materials, methods, and techniques of instruction in elementary science. **3 credits.**

### **EDU 320 METHODS OF TEACHING ELEMENTARY MUSIC AND ART**

*Prerequisite:* EDU 202. Materials, methods, and techniques of instruction in elementary art and music. Includes music literature and teaching aids for students regarding singing, rhythmic, creative, instrumental, and listening experiences, and their presentation. Includes methods and materials for integrating art throughout the elementary curriculum. **2 credits.**

### **EDU 321 METHODS OF TEACHING MIDDLE AND SECONDARY ENGLISH**

*Prerequisites:* EDU 272, 303. Procedures, materials, organization, and assessment for teaching middle and secondary level English courses are investigated. The use of computers in the classroom and in assessment are also explored. This course will provide on-campus clinical teaching experiences at the middle and secondary levels. **3 credits.**

### **EDU 322 METHODS OF TEACHING SECONDARY MUSIC**

*Prerequisites:* EDU 202, 272. Special methods in teaching music on the secondary school level. Junior and senior high school general music class curriculum, as well as organization of band, string, and vocal programs of instruction are emphasized. **3 credits.**

### **EDU 323 METHODS OF TEACHING MIDDLE AND SECONDARY SOCIAL STUDIES**

*Prerequisites:* EDU 202, 272. Materials, methods, and techniques for social studies courses on the middle and secondary school level. This course will provide on-campus clinical teaching experiences at the middle and secondary levels. **3 credits.**

## COURSE DESCRIPTIONS

- EDU 324 METHODS OF TEACHING SECONDARY PHYSICAL EDUCATION**  
*Prerequisites:* EDU 202, 272. Analyzes the strategies of proper teaching of secondary physical education. Discussion includes curriculum, discipline, and classroom management procedures for a well-developed program. **3 credits.**
- EDU 325 METHODS OF TEACHING MIDDLE AND SECONDARY SCIENCE**  
*Prerequisites:* EDU 202, 272. Materials, methods, and techniques of instruction for science courses on the middle and secondary school level. This course will provide on-campus clinical teaching experiences at the middle and secondary levels. **3 credits.**
- EDU 327 METHODS OF TEACHING SECONDARY BUSINESS**  
*Prerequisites:* EDU 202, 272. Materials, methods, and techniques of instruction for business courses on the secondary school level. **3 credits.**
- EDU 328 METHODS OF TEACHING MIDDLE AND SECONDARY MATHEMATICS**  
*Prerequisites:* EDU 202, 272. Materials, methods, and techniques of instruction for mathematics courses on the middle and secondary school level. This course will provide on-campus clinical teaching experiences at the middle and secondary levels. **3 credits.**
- EDU 329 METHODS OF TEACHING SECONDARY BIBLE**  
*Prerequisites:* EDU 202, 272. Materials, methods, and techniques of instruction for Bible courses on the secondary school level. **3 credits.**
- EDU 332 TEACHING READING IN MIDDLE AND SECONDARY SCHOOLS**  
*Prerequisites:* EDU 202, 272. An introduction to determining signs of middle and secondary students' progress with the reading process followed by practice with appropriate measures for improving students' reading performance. Included in the study are issues of assessment, vocabulary, comprehension, writing, study skills, and cultural aspects of learning. **3 credits.**
- EDU 345 TEACHING DIVERSE POPULATIONS**  
This course will examine the demographic revolution in American society and its implications for the classroom. Students will be introduced to culture, diversity, multicultural education, and pluralism from a Biblical worldview. **3 credits.**
- EDU 362, 363 FIELD EXPERIENCE PRACTICUM I & II**  
*Prerequisites:* Junior status. To be taken in conjunction with education methods classes. An intensive prescribed clinical field experience program for education majors; provides opportunities to field test pedagogical learnings, while assisting cooperating teachers in a variety of ways, including tutoring, working with small groups, teaching, grading papers, and other appropriate activities. Students in EDU 363 will be expected to demonstrate greater initiative and proficiency in classroom related tasks. Students are graded on a *S/U* basis. *S* grades are required in order to qualify for EDU 460. **0 credit each.**
- EDU 404 TESTS & MEASUREMENTS**  
*Prerequisites:* EDU 202, 272, Senior status. A study of available standardized psychological and education tests and measurements and the interpretation of test results. Attention is given to the construction of classroom tests and quizzes. **3 credits.**

## COURSE DESCRIPTIONS

### **EDU 410 APPLIED LINGUISTICS**

*Prerequisite:* EDU 210. A capstone course providing a framework and a practical/theoretical basis for synthesizing all five ESOL state mandates. Completion of an ESOL Performance Standards Portfolio is required. **3 credits.**

### **EDU 419 DIAGNOSTIC AND PRESCRIPTIVE PROCEDURES IN READING**

*Prerequisite:* EDU 312. This course will examine methods for teaching reading to students including the use of diagnostic and descriptive procedures using individual and group reading instruction. The course will examine the study and procedures currently used in the field and the factors related to the diagnosis, assessment, and remediation of reading difficulties. **3 credits.**

### **EDU 420 CLASSROOM MANAGEMENT**

*Prerequisite:* Senior status. This course integrates classroom management, school safety, professional ethics, and educational law. The students will develop a classroom management plan and their portfolio to reflect the demonstration of the twelve accomplished practices. **3 credits.**

### **EDU 460 STUDENT TEACHING INTERNSHIP**

*Prerequisites:* Senior status, division approval. Fourteen weeks of observation and direct teaching experience in a local school. The student is under the supervision of the education faculty of the College as well as the administrator and directing teacher within the participating school. The value of working under the supervision of a master teacher in a self-contained or departmentalized classroom is of utmost importance in putting theory into practice. Course fee: \$175. **12 credits.**

**For courses in PHYSICAL EDUCATION, see PHE.**

**For courses in SPECIAL EDUCATION, see SED.**

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## *Courses in English*

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### **ENG 099 BASIC ENGLISH GRAMMAR**

A course designed to cover the principles of grammar. Entrance is determined by scores from a recent administration of the ACT or SAT and College placement decisions. A minimum grade of C- is required for satisfactory completion. Not applicable toward graduation requirements. **3 hours.**

### **ENG 101 ENGLISH COMPOSITION I**

The student writes a variety of compositions. The course covers basic competencies tested by CLAST in the writing and essay subtest areas. Entrance is determined by scores from a recent administration of the ACT or SAT and College placement decisions or satisfactory completion of ENG 099. A minimum grade of C- is required for satisfactory completion. **3 credits.**

### **ENG 102 ENGLISH COMPOSITION II**

*Prerequisite:* ENG 101. Research techniques leading to the preparation of a term paper are investigated and applied. Critical writing skills are practiced and evaluated. A minimum grade of C- is required for satisfactory completion. **3 credits.**

- ENG 103 COLLEGE ENGLISH REVIEW**  
*Prerequisites: ENG 101, 102.* An intensive review of the major concepts in ENG 101, 102 for students who have not passed the English Language Skills or Essay component of the College Level Academic Skills Test. Offered in the first five weeks of each semester prior to October and February test administration dates. Not applicable to core requirements in English. **1 credit.**
- ENG 201 EXPOSITORY WRITING**  
*Prerequisites: ENG 101, 102.* Specialized seminar for practice in literary exposition. Designed to sharpen critical thinking and writing skills by reading thought-provoking essays and by practicing different expository forms. **3 credits.**
- ENG 204 CREATIVE WRITING**  
*Prerequisites: ENG 101, 102.* A critical study of literary forms for creative writing. Emphasis on writing various types of original compositions. **3 credits.**
- ENG 211, 212 AMERICAN LITERATURE I & II**  
*Prerequisites: ENG 101, 102.* An intensive study of several major works of American literature which are representative of their periods and genres. Each course should enable the student to develop his ability to read discerningly and to understand the cultural basis for the literature. **3 credits each.**
- ENG 221, 222 BRITISH LITERATURE I & II**  
*Prerequisites: ENG 101, 102.* An intensive study of works representative of periods and development in British literature. Each course should aid the student in understanding the cultural development of the time and in forming his own ideas and judgments in relation to these major works. Emphasis is placed on the influence of the Bible upon British literature. **3 credits each.**
- ENG 291 WESTERN LITERATURE STUDY ABROAD**  
Escorted 14-day study tour of western European countries (specific destinations will be selected each time offered) to visit historic and literary sites including theater productions. Cost includes air, hotels and local transportation. Pre-tour reading and post-tour papers will be assigned. Course fees apply in addition to tuition. **3 credits.**
- ENG 301 STUDIES IN AMERICAN LITERATURE**  
*Prerequisites: ENG 101, 102, 211, and 212.* A detailed study of a principal period, author, work, or subject in American literature. The course will examine the writings of American authors in context with the development of American thought and culture. **3 credits.**
- ENG 311 ADOLESCENT LITERATURE**  
*Prerequisites: ENG 101, 102 and two of the following: ENG 211, 212, 221, 222.* Surveys appropriate literature for junior and senior high school students which will help them better understand their world, their peers, and themselves in light of God's Word. **3 credits.**

## COURSE DESCRIPTIONS

### ENG 312 DRAMATIC LITERATURE

*Prerequisites:* ENG 101, 102, and two of the following: ENG 211, 212, 221, 222. A study of specific dramatic pieces, beginning with Greek tragedy and comedy through French seventeenth and eighteenth century British and American plays, nineteenth and twentieth century British and American plays. Specifically, this course will examine play construction and criticism to reveal the elements of tragic and comic writing for the theater. **3 credits.**

### ENG 321 ADVANCED GRAMMAR

*Prerequisites:* ENG 101, 102 and two of the following: ENG 211, 212, 221, 222. A detailed study of English grammar for the upper level student who plans to teach English or who seeks a higher proficiency in English skills than that attained in freshman English composition. **3 credits.**

### ENG 324 ENGLISH LITERATURE OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES

*Prerequisites:* ENG 101, 102 and two of the following: ENG 211, 212, 221, 222. A study of the representative literature of the late Renaissance, Restoration, and Neo-classical eras including such writers as Donne, Herbert, Jonson, Milton, Dryden, Bunyan, Swift, Pope, and Johnson. **3 credits.**

### ENG 331 WORLD LITERATURE

*Prerequisites:* ENG 101, 102 and two of the following: ENG 211, 212, 221, 222. A wide-ranging study of world literature. Representative selections from the ancient period up through the twentieth century are included, with a broad spectrum of countries represented. Attention is given to the historical, cultural, and philosophical contexts of the literature. **3 credits.**

### ENG 332 SHAKESPEARE

*Prerequisites:* ENG 101, 102 and two of the following: ENG 211, 212, 221, 222. An in-depth study of Shakespeare's plays, assigned sonnets, and early seventeenth century culture. **3 credits.**

### ENG 334 MILTON

*Prerequisites:* ENG 101, 102 and two of the following: ENG 211, 212, 221, 222. A study of Milton's poetical works (mainly *Paradise Lost*), selected prose, and the author's philosophy in relation to his historical setting. **3 credits.**

### ENG 391 ENGLISH STUDY ABROAD

Escorted 14-day study tour to the United Kingdom to visit historic and literary sites and attend their theater productions at the New Globe Theater in London and the Royal Shakespeare Theater in Stratford. Pre-tour readings and post-tour papers will be assigned. Substantial course fees apply in addition to tuition. **3 credits.**

### ENG 430 THE NOVEL

*Prerequisites:* ENG 101, 102 and two of the following: ENG 211, 212, 221, 222. A study of the novel in English, its history, elements, and criticism, including British and American novels from early fictional literature to the present. Students will read and study at least six novels representative of the genre. **3 credits.**

**ENG 431 CHAUCER**

*Prerequisites:* ENG 101, 102 and two of the following: ENG 211, 212, 221, 222. A study of Chaucer's major works and other major works of the medieval period of English literature. Much is read in Middle English in order to familiarize the student with an important stage in the development of the English language. **3 credits.**

**ENG 436 BRITISH LITERATURE OF THE NINETEENTH CENTURY**

*Prerequisites:* ENG 101, 102 and two of the following: ENG 211, 212, 221, 222. Selections from Romantic and Victorian poetry and prose including the novel. Emphasis is placed on the major poetry of Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, and Arnold as well as selections from their critical prose. Representative novels by the major writers from Jane Austen to Thomas Hardy are also studied. **3 credits.**

**ENG 441 CONTEMPORARY LITERATURE**

*Prerequisites:* ENG 211, 212, 221, 222. Students will evaluate works of Christian and secular philosophy as well as contemporary fiction in order to understand current thought and its translation into narrative. Critical research is conducted and reviews analyzed to understand contemporary criticism and to prepare students for ENG 491. Some off-campus work may be necessary. **3 credits.**

**ENG 490 LITERARY CRITICISM**

*Prerequisites:* ENG 101, 102 and two of the following: ENG 211, 212, 221, 222. Investigation of various literary movements and approaches through examination of the most influential critics and theorists from Plato and Aristotle to the twentieth century, evaluating them from a Christian perspective. **3 credits.**

**ENG 491 LITERATURE SEMINAR**

*Prerequisites:* Senior status, department approval. A capstone course requiring the student to draw together his college courses and experience and to consider God's plan for post-baccalaureate directions. Students will research and write a major paper, including a review of criticism and biographical analysis on a single work of narration. Some research will need to be conducted off campus. *The Art of Literary Research* will be read and discussed. **3 credits.**

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### *Courses in Finance*

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**FIN 301 FINANCIAL MANAGEMENT OF THE FIRM**

*Prerequisites:* ACC 202, MAT 350 or BUS 311. A study of the principles of finance and the value creation process. Major topics of study include cash flow and financial statement analysis, concepts and methods of financial planning, capital budgeting, capital structure, long-term financing, cost of capital, and working capital management—all with an international perspective. **3 credits.**

**FIN 305 VALUATION OF BUSINESS WEALTH**

*Prerequisite:* FIN 301. An advanced course for finance and accounting majors focusing on the methods and analytical techniques of valuing business wealth. Subjects include concepts of value, value in use and value in exchange, valuing intangibles, applying valuation theory and practice to shareholder value strategies, mergers, acquisitions, LBO's, reorganizations, workouts, turnaround and bankruptcy problems. **3 credits.**

## COURSE DESCRIPTIONS

### **FIN 320 SECURITIES AND INVESTMENTS**

*Prerequisite: FIN 301.* A definitive study of securities instruments used in financial markets and the risk characteristics and features appropriate for investor return requirements and risk aversion. Emphasis is given to the fundamentals of securities investing and contemporary finanion in global financial markets. As in most finance courses, this course uses computer network services for on-line, real time analysis. **3 credits.**

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### *Courses in Geography*

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### **GEO 200 SURVEY OF WORLD GEOGRAPHY**

A study of the nations of the world, including the location of countries, regions, major cities, climates, and land formations. **3 credits.**

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### *Courses in History*

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### **HIS 121, 122 HISTORY OF CIVILIZATION I & II**

A survey of civilization from the beginning of writing to the present time. Special emphasis is given to the political, social, cultural, and religious developments in the history of mankind. **3 credits.**

### **HIS 201, 202 UNITED STATES HISTORY I & II**

History of the United States from the earliest explorations to the present. Special attention is paid to the political, economic, cultural, and religious growth of the United States. **3 credits.**

### **HIS 311 BRITISH HISTORY**

History of England from the time of the Roman occupation until the present time. Special attention is given to the development of the British Empire, and the role of Great Britain in the modern world. **3 credits.**

### **HIS 318 RECENT EUROPEAN HISTORY**

Political and Cultural development in twentieth century Europe. Special emphasis is given to World War I, the rise of Communism, Fascism, and Nazism; the inter-war period; World War II; and the various plans for European cooperation. **3 credits.**

### **HIS 331 SPANISH HISTORY**

This course traces Spain's history from Roman colonization through contemporary events in the Post-Franco democratic period. This includes an overview of the Musselman invasion, reconquist, Catholic Kings, the epoch of the Emperor Charles the Fifth, the 18<sup>th</sup> Century War of Independence, Restoration, social and economic problems leading to the Spanish Civil War, and the Franco Regime. Special attention will be drawn to various events in Spanish history as the tour visits places of historical significance. **3 credits.**

### **HIS 333 LATIN AMERICAN HISTORY**

A study of Latin American history covering the pre-colonial era, the colonial era, and the post-colonial era with a special emphasis upon the Third World character of the region. **3 credits.**

## COURSE DESCRIPTIONS

- HIS 341 RUSSIAN HISTORY**  
A study of Russia from national beginnings through the Soviet state. Analysis will be made of Tzardom, the Revolution, and the changing Soviet state and its international relations in the modern world. **3 credits.**
- HIS 343 ASIAN/AMERICAN HISTORY**  
A study of American international relations with Asian nations from the opening of Japan to American trade by Commodore Perry through the modern period. **3 credits.**
- HIS 347 FLORIDA HISTORY**  
A study of Florida history beginning with the original Indian tribes, the Spanish and British occupations, the acquisition of the Floridas from Spain, the territorial period, the Seminole Wars, and statehood through the present. **3 credits.**
- HIS 349 HISTORY OF U.S. PRESIDENTIAL ELECTIONS**  
This course is a study of American political history from 1789 to the present with particular emphasis on the quadrennial presidential campaigns of major parties and selected third parties. It will examine the nominating system, party conventions, electioneering, the Electoral College, debates and the impact of the media in more recent years on the election of the President of the United States. **3 credits.**
- HIS 351 AMERICA IN THE NUCLEAR AGE**  
A study of critical trends and events in American history from World War II through the present day. This course will include an examination of the Cold War and American foreign policy, the Civil Rights movement, and American domestic policy, the influence of popular culture and the media, and the increasing role of technology in our society. **3 credits.**
- HIS 353 MIDDLE EAST HISTORY**  
A study of the political, religious, ethnic, and economic development of the Middle East from 538 BC to the present with particular emphasis on the state of Israel and the rise of Islamic nationalism. **3 credits.**
- HIS 401, 402 CHURCH HISTORY I & II**  
First semester: the Christian church from its beginning to the Reformation. Second semester: the Reformation and Counter-Reformation, the reformers, the persecution, and developments of post-Reformation denominations and their effects on governments and culture. **3 credits each.**
- HIS 409 COLONIAL ERA**  
A seminar course with directed readings and discussion covering the Colonial Period of American history from the European discovery of America through the American War of Independence with comprehensive study of the economic, ethnic, and social culture of the developing American society. **3 credits.**
- HIS 423 EARLY NATIONAL PERIOD**  
A study of the political, economic and social development of the United States from 1800-1860, with particular emphasis on the Industrial Revolution and the rise of sectionalism. **3 credits.**

## COURSE DESCRIPTIONS

### **HIS 425 CIVIL WAR & RECONSTRUCTION**

An in-depth study of the factors of sectionalism and states' rights which led to the Civil War. Heavy emphasis is placed on military campaigns and the post-war Reconstruction. **3 credits.**

### **HIS 427 HISTORICAL BIOGRAPHY**

A seminar consisting of directed readings in the biographies of individuals whose lives and deeds have impacted our national life and focuses. **3 credits.**

### **HIS 491 HISTORY SEMINAR**

Selected problems in history and an examination of historiography and philosophies of history. **3 credits.**

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## *Courses in Humanities*

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### **HUM 201 ART APPRECIATION**

*Prerequisite: ENG 101.* A study of the visual arts with a focus on art elements in general and in relation to specific art forms. The emphasis of the course is appreciation for and understanding of art. **2 credits.**

### **HUM 202 MUSIC APPRECIATION**

A general survey of the world's great music and its composers, with emphasis on the development of intelligent listening. Music majors and minors are encouraged to take this course in their freshman year. **2 credits.**

### **HUM 491 HUMANITIES SEMINAR**

*Prerequisite: Senior status.* A capstone course designed to integrate and summarize the ideas and concepts presented in the courses leading to a B.A. in Humanities. The student researches and writes about topics geared to his/her interests and purposes and makes some evaluation about past achievements and future possibilities. **3 credits.**

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## *Courses in Information System Management*

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### **ISM 300 DATABASE DESIGN CONCEPTS I**

See CIS 300. **3 credits.**

### **ISM 301 DATABASE DESIGN CONCEPTS II**

See CIS 301. **3 credits.**

### **ISM 310 INTRODUCTION TO INFORMATION SYSTEMS MANAGEMENT**

*Prerequisites: BUS 100, CIS 100, 250.* An introduction to the use of technology in managing the creation and flow of information through a business. Topics include management of information systems, hardware and software considerations, networks, and data communications. Course fee: \$20. **3 credits.**

**ISM 320 E-COMMERCE**

*Prerequisites:* CIS 201, 250, ISM 310. E-Commerce explores the new world of electronic commerce and its impact on business practices. The course explores electronic commerce opportunities, issues, alternatives and techniques to support the development of an e-commerce business and a web site that supports the plan. The impact on members of the supply chain may also be evaluated. The issue of understanding customer's needs and concerns will be addressed. E-commerce marketing tools will be investigated. Students will evaluate alternative e-commerce Internet web sites and plan a site that meets marketing objectives. They will look at how to promote the site to target audiences. Course fee: \$40. **3 credits.**

**ISM 430 DATA COMMUNICATIONS AND NETWORKS**

*Prerequisite:* ISM 310. Examines the concepts and methods of telecommunications and network architecture. Students study the fundamentals of networking, transmission standards, and communication protocols. Course fee: \$40. **3 credits.**

**ISM 450 WEB APPLICATION DEVELOPMENT**

*Prerequisite:* CIS 201. A survey of languages and tools used in client-side and server-side web development. These include HTML, JAVA, XML, ASP.NET, .NET Languages, and various scripting languages. Course fee: \$40. **3 credits.**

**ISM 460 INFORMATION SYSTEMS INTERNSHIP**

*Prerequisites:* CIS 201, ISM 300, 310, 430, senior status, division approval. Student will work with a system administrator or software developer to gain relevant experience and application of course concepts. **3 credits.**

**ISM 470 SYSTEMS ANALYSIS AND DESIGN**

*Prerequisites:* CIS 100, 201, 250, ISM 300, 310, 330. An overview of systems development using the life cycle methodology with emphasis on use of analytical tools, development of selection criteria, and development of comprehensive system documentation. **3 credits.**

### *Courses in Languages*

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**LAN 101, 102 ELEMENTARY GREEK I & II**

*Prerequisite:* ENG 102. A foundational study of the grammar, vocabulary, and syntax of New Testament Greek with the goal of preparing the student to translate in the Greek New Testament. **3 credits each.**

**LAN 105 ELEMENTARY SPANISH I**

Development of basic skills in listening, reading, comprehension, speaking, and writing of Spanish. **3 credits.**

**LAN 106 ELEMENTARY SPANISH II**

Continued development of basic skills in listening, reading, comprehension, speaking, and writing of Spanish. **3 credits.**

**LAN 109 ELEMENTARY FRENCH I**

Development of basic skills in listening, reading, comprehension, speaking, and writing of French. **3 credits.**

## COURSE DESCRIPTIONS

- LAN 110 ELEMENTARY FRENCH II**  
Continued development of basic skills in listening, reading, comprehension, speaking, and writing of French. **3 credits.**
- LAN 201, 202 INTERMEDIATE GREEK I & II**  
*Prerequisite: LAN 102.* A study of advanced grammar, vocabulary based on word frequency lists, and methodology for word studies with the goal of preparing the student to write simple exegetical commentary. Translation of varied portions of the Greek New Testament. **3 credits each.**
- LAN 205 INTERMEDIATE SPANISH I**  
*Prerequisite: LAN 106 or equivalent.* Readings in Spanish on the intermediate level. A review of the basic structure of spoken and written Spanish, and exploration of present day Hispanic culture. **3 credits.**
- LAN 206 INTERMEDIATE SPANISH II**  
Continued readings in Spanish on the intermediate level. Continued review of the basic structure of spoken and written Spanish and exploration of present day Hispanic culture. **3 credits.**
- LAN 209 INTERMEDIATE FRENCH I**  
*Prerequisite: LAN 110 or equivalent.* Readings in French on the intermediate level. A review of the basic structure of spoken and written French and exploration of present day French culture. **3 credits.**
- LAN 210 INTERMEDIATE FRENCH II**  
Continued readings in French on the intermediate level. Continued review of the basic structure of spoken and written French and exploration of present day French culture. **3 credits.**

## *Courses in Mathematics*

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- MAT 099 BASIC ALGEBRA**  
A course designed to cover basic algebraic concepts. Entrance is determined by scores from a recent administration of the ACT or SAT and college placement decisions. A minimum grade of C- is required for satisfactory completion. Not applicable toward graduation requirements. **3 credits.**
- MAT 130 INTERMEDIATE ALGEBRA**  
*Prerequisite: MAT 099 or an appropriate score on the mathematics placement test.* Major topics include factoring, algebraic fractions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, linear equations and inequalities, absolute value equations, and an introduction to functions and their applications. A TI-83 calculator is recommended for this course. **3 credits.**

**MAT 140 COLLEGE ALGEBRA**

A study of sets, properties of real numbers, algebraic expressions and polynomials, solving equations and inequalities, various relations, and functions and their graphs. Entrance is determined by scores from a recent administration of the ACT or SAT and College placement decisions or satisfactory completion of MAT 130. A TI-83 calculator is required for this course. **3 credits.**

**MAT 145 LIBERAL ARTS MATHEMATICS**

This course will include topics related to mathematical logic, sets and systematic counting, probability, statistics, and geometry. The history of mathematics, critical thinking skills, problem solving and appropriate use of technology will be incorporated throughout the course. At least one-third of the course will be devoted to geometry. **3 credits.**

**MAT 148 PRECALCULUS MATHEMATICS**

*Prerequisites: MAT 130 or an appropriate score on the mathematics placement test.* This course is designed to prepare the student for Calculus I. It includes a study of functions and their graphs, exponential and log functions, the trigonometric functions and their graphs, trigonometric identities, solving trigonometric equations, the Law of Sines and Law of Cosines, rational functions, and solving polynomial equations. A TI-83 calculator is recommended for this course. **3 credits.**

**MAT 150 PROBABILITY AND STATISTICS**

Descriptive statistics, introductory probability theory, random variables, discrete and continuous probability distributions, sampling distributions, confidence intervals, and hypotheses testing. A TI-83 calculator is required for this course. **3 credits.**

**MAT 161 CALCULUS I**

*Prerequisite: MAT 148 or test equivalent.* A study of functions and limits, differentiation of single variable, and associated applications. Entrance is determined by scores from a recent administration of ACT or SAT and College placement decisions. **3 credits.**

**MAT 162 CALCULUS II**

*Prerequisite: MAT 161.* Methods of integration and differentiation, sequences and series, Taylor series and polar coordinates. **3 credits.**

**MAT 261 CALCULUS III**

*Prerequisite: MAT 162.* Functions of more than one variable, multiple integrals and partial differentiation, non-rectangular coordinate systems, line integrals, and vector calculus. **3 credits.**

**MAT 320 FOUNDATIONS OF GEOMETRY**

*Prerequisite: MAT 140.* An introduction to the theory of Euclidean and non-Euclidean geometry. Appropriate for prospective teachers. **3 credits.**

**MAT 340 HISTORY OF MATHEMATICS**

*Prerequisites: MAT 161, 162.* Chronological study of the evolution of mathematical thought from primitive counting to modern ideas of the twentieth century. **3 credits.**

## COURSE DESCRIPTIONS

### **MAT 360 DISCRETE MATHEMATICS**

*Prerequisite:* MAT 140. An introduction to finite mathematics and discrete models, logic, algorithms, inductions, combinations, Boolean algebra. Emphasis on discrete rather than continuous aspects. **3 credits.**

### **MAT 370 LINEAR ALGEBRA**

*Prerequisites:* MAT 162. A study of systems of linear equations, matrices, and vector spaces with their properties. **3 credits.**

### **MAT 380 DIFFERENTIAL EQUATIONS**

*Prerequisites:* MAT 261. A study of first order linear and non-linear differential equations, higher order linear equations and applications. **3 credits.**

### **MAT 390 INTRODUCTORY NUMBER THEORY**

An investigation of properties of the integers, including the Euclidean and division algorithms, prime factorization, Diophantine equations, congruences, and classical theorems of number theory. **3 credits.**

### **MAT 430 MATHEMATICAL STATISTICS**

*Prerequisites:* MAT 161, 162. A Calculus-based study of probability and statistics. Probability density functions, conditional probability and independence, special probability distributions. Sampling distributions, estimations, and hypotheses testing. **3 credits.**

### **MAT 460 ABSTRACT ALGEBRA**

An introduction to abstract algebraic structures including groups, rings, integral domains, and fields, and their applications. **3 credits.**

### **MAT 470 TOPOLOGY**

An introduction to topological spaces and their structure with emphasis on separation axioms, continuity, metric spaces, and homology. **3 credits.**

### **MAT 475 ADVANCED TOPICS IN MATHEMATICS**

*Prerequisite:* MAT 380. The department will choose topics to be covered which will best prepare students to begin graduate studies in mathematics. Possible topics include topology, abstract algebra, partial differential equations, differential geometry, group theory, measure theory and probability, computation and logic, and mathematical computation. **3 credits.**

### **MAT 480 MATHEMATICAL COMPUTATION**

A survey of technology and procedures being used to aid computation in a number of mathematical fields such as calculus, algebra, differential equations, linear algebra, geometry, numerical analysis, statistics, number theory, and mathematical programming. **3 credits.**

### **MAT 490 ADVANCED CALCULUS**

*Prerequisite:* MAT 261. The theory behind the differential and integral calculus in real Euclidian spaces and an introduction to complex variables and the differentiation and integration of complex valued functions. **3 credits.**

**MAT 491 MATHEMATICS SEMINAR**

Interaction of faculty with advanced students in areas of mathematical study. Required of all Mathematics majors. **3 credits.**

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### *Courses in Missions*

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**MIS 101 PERSONAL EVANGELISM**

Scriptural methods of witnessing and leading souls to a personal acceptance of Christ as Savior and of basic teaching needed in the discipleship of new believers. A program of Scripture memorization, reading of biographies of personal workers, and opportunities for practical experiences in personal work are included. **2 credits.**

**MIS 201 HISTORY AND PHILOSOPHY OF MISSIONS**

An introduction to the Biblical basis for missions. The course includes a study of the missionary call, qualifications, of and preparation for missionary life and activity, the lives of key missionary pioneers, a study of the origin, history, progress, and fields of service in the world. **3 credits.**

**MIS 301 MISSION PRINCIPLES, POLICIES & PRACTICES**

A survey of mission principles, policies, and practices in relation to the local church, the mission agency, and fellow missionaries/nationals on the field. A look at the practical concerns that arise during all stages of the missionary/mission endeavor. **3 credits.**

**MIS 320 CROSS CULTURAL ISSUES**

An examination of cross cultural issues including, but not limited to culture shock, ethnocentrism, and stereotypes as well as deep and surface culture. This course is designed to promote an understanding of and sensitivity to cultural differences for individuals who intend to pursue careers as Christian teachers, missionaries, and other workers who desire to serve in this country and abroad. Applications and awareness of these concepts in the multicultural classroom are addressed in the course. **3 credits.**

**MIS 401 MISSIONARY FIELD EXPERIENCE**

*Prerequisite: Faculty approval.* A minimum three-week experience on a selected mission field under the direction of a qualified missionary field director in co-ordination with a fundamental mission agency. Fee dependent on approved experience. **3 credits.**

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### *Courses in Applied Music*

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**MUA 000, 001 PIANO, VOICE, INSTRUMENTAL PERFORMANCE**

Group instruction and performance for all applied music students in piano or voice each semester. Piano = 000; Voice = 001. **0 credit.**

**APPLIED MUSIC - PRINCIPAL PROFICIENCY\***

The principal applied music proficiency field is designed for music majors and considered the student's major concentration. The student is required to study and perform representative repertoire from the Baroque, Classical, Romantic, and Modern periods. A proficiency

## COURSE DESCRIPTIONS

jury is required at the end of the first semester. A freshman assessment test is required at the end of the second semester. A sophomore platform test is required at the end of the student's second year to determine admission into the major. For the junior and senior years, a proficiency jury is held at the end of each semester. In addition, a recital is required of the student during the junior and senior years. **Each course awards one semester credit for successful completion.** Course numbers below are assigned for the various types of instruction available. In the eighth and final semester, students participate in a two-hour recital course.

Bassoon: *MUA 145, 146, 245, 246, 345, 346, 445, and 446*  
Cello: *MUA 181, 182, 281, 282, 381, 382, 481, and 482*  
Clarinet: *MUA 141, 142, 241, 242, 341, 342, 441, and 442*  
Composition: *MUA 197, 198, 297, 298, 397, 398, 497, and 498*  
Flute: *MUA 133, 134, 233, 234, 333, 334, 433, and 434*  
French Horn: *MUA 161, 162, 261, 262, 361, 362, 461, and 462*  
Guitar: *MUA 189, 190, 289, 290, 389, 390, 489, and 490*  
Harp: *MUA 163, 164, 263, 264, 363, 364, 463, and 464*  
Oboe: *MUA 137, 138, 237, 238, 337, 338, 437, and 438*  
Organ: *MUA 125, 126, 225, 226, 325, 326, 425, and 426*  
Percussion: *MUA 193, 194, 293, 294, 393, 394, 493, and 494*  
Piano: *MUA 115, 116, 215, 216, 315, 316, 415, and 416*  
Saxophone: *MUA 149, 150, 249, 250, 349, 350, 449, and 450*  
String Bass: *MUA 185, 186, 285, 286, 385, 386, 485, and 486*  
Trombone: *MUA 157, 158, 257, 258, 357, 358, 457, and 458*  
Trumpet: *MUA 153, 154, 253, 254, 353, 354, 453, and 454*  
Tuba: *MUA 169, 170, 269, 270, 369, 370, 469, and 470*  
Viola: *MUA 177, 178, 277, 278, 377, 378, 477, and 478*  
Violin: *MUA 173, 174, 273, 274, 373, 374, 473, and 474*  
Voice: *MUA 105, 106, 205, 206, 305, 306, 405, and 406*

**NOTE:** All principal proficiency lessons have a \$440 course fee per lesson (50-minute lesson).

### **APPLIED MUSIC - SECONDARY PROFICIENCY\***

The secondary applied music proficiency field is designed for music majors and is taken in conjunction with the student's principal proficiency. Minimum proficiency is required and proven through examination. Piano principals are required to study secondary voice or an orchestral instrument. Vocal and all other instrumental principals are required to study secondary piano. **Each course awards one semester credit for successful completion.** Course numbers below are assigned the available instruction.

Piano: *MUA 113, 114, 213, 214, 313, 314, 413, and 414*  
Voice: *MUA 103, 104, 203, 204, 303, 304, 403, and 404*

## COURSE DESCRIPTIONS

**NOTE:** All secondary proficiency lessons have a \$220 course fee per lesson (25-minute lesson).

### **APPLIED MUSIC - NON-MUSIC MAJOR\***

These applied courses are designed for the non-music major who is interested solely in developing skill for personal enrichment. Instruction is tailored to take students from their level of entry to a designated level of improvement. **Each course awards one semester credit for successful completion.** Course numbers below are assigned for the various types of instruction.

Bassoon: *MUA 143, 144, 243, 244, 343, 344, 443, and 444*  
Cello: *MUA 179, 180, 279, 280, 379, 380, 479, and 480*  
Clarinet: *MUA 139, 140, 239, 240, 339, 340, 439, and 440*  
Composition: *MUA 195, 196, 295, 296, 395, 396, 495, and 496*  
Flute: *MUA 131, 132, 231, 232, 331, 332, 431, and 432*  
French Horn: *MUA 159, 160, 259, 260, 359, 360, 459, and 460*  
Guitar: *MUA 187, 188, 287, 288, 387, 388, 487, and 488*  
Harp: *MUA 165, 166, 265, 266, 365, 366, 465, and 466*  
Hymnplaying: *MUA 117, 118, 217, 218, 317, 318, 417, and 418*  
Oboe: *MUA 135, 136, 235, 236, 335, 336, 435, and 436*  
Organ: *MUA 121, 122, 221, 222, 321, 322, 421, and 422*  
Percussion: *MUA 191, 192, 291, 292, 391, 392, 491, and 492*  
Piano: *MUA 111, 112, 211, 212, 311, 312, 411, and 412*  
Saxophone: *MUA 147, 148, 247, 248, 347, 348, 447, and 448*  
String Bass: *MUA 183, 184, 283, 284, 383, 384, 483, and 484*  
Trombone: *MUA 155, 156, 255, 256, 355, 356, 455, and 456*  
Trumpet: *MUA 151, 152, 251, 252, 351, 352, 451, and 452*  
Tuba: *MUA 167, 168, 267, 268, 367, 368, 467, and 468*  
Viola: *MUA 175, 176, 275, 276, 375, 376, 475, and 476*  
Violin: *MUA 171, 172, 271, 272, 371, 372, 471, and 472*  
Voice: *MUA 101, 102, 201, 202, 301, 302, 401, and 402*

**NOTE:** All non-music major lessons have a \$220 course fee per lesson (25-minute lesson).

\*Students enrolling in any applied music course are required to enroll in the appropriate performance class. Performance classes meet regularly as announced by the music department.

## COURSE DESCRIPTIONS

### *Courses in Music*

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All entering music majors and minors and transfer students will take a music theory placement test prior to or during the first scheduled meeting of MUS 123 or 125. The result of this test will determine whether they may enroll in MUS 123 or whether they must enroll in MUS 098.

- MUS 098, 099**    **BASIC MUSIC**  
Covers rudiments of music pertaining to notation, intervals, keys, scales, sight-singing, and ear-training. Entrance is determined by score on Theory Placement Test. A minimum grade of C- is required for satisfactory completion. Not applicable toward graduation requirements. **1 credit each.**
- MUS 123, 124**    **MUSIC THEORY I & II**  
Fundamentals of music and basic harmony. Some instrumental or vocal background desirable. **2 credits each.**
- MUS 125, 126**    **AURAL THEORY I & II**  
Sight-singing and ear training, including rhythmic, melodic, and harmonic dictation and elementary keyboard harmony. Must be taken concurrently with MUS 123, 124. **1 credit each.**
- MUS 160-163**    **COLLEGE CHOIR**  
Open audition to all who love to sing serious music. The choir presents a major Christmas work, periodically ministers in Sunday church services, and participates in an extended tour during the spring semester. Extra time commitment is expected. A maximum of four credits may be applied toward graduation requirements. Choir fee: \$30. **1 credit.**
- MUS 170-173**    **CHORALE**  
A select mixed ensemble chosen by audition. Represents the College through performances in high school assemblies, local churches, and civic organizations. A maximum of four credits may be applied toward graduation requirements except for Church Music and Music majors. **1 credit.**
- MUS 190**    **PEP BAND**  
The Pep Band stirs up the crowd at the home basketball games. It meets once a week for one hour just a few weeks before basketball season and will perform all season long. Individuals are selected by audition. A minimum of ten students must register for credit in order for the course to be offered. **1 credit.**
- MUS 223, 224**    **MUSIC THEORY III & IV**  
*Prerequisites: MUS 124, 126.* Advanced harmony including secondary dominants and augmented sixth chords. **2 credits each.**
- MUS 225, 226**    **AURAL THEORY III & IV**  
Advanced sight-singing and ear training with increased emphasis on harmonic dictation in addition to more advanced rhythmic and melodic dictation and keyboard harmony. Must be taken concurrently with MUS 223, 224. **1 credit each.**

## COURSE DESCRIPTIONS

- MUS 230-231**     **DICTION FOR SINGERS**  
These courses should be taken concurrently with the first semester of voice study. Pronunciation improvement through study of the International Phonetic Alphabet (IPA). Emphasis on Latin, Italian, German, French, and English pronunciation through class discussion, practice drills, and song preparation. **1 credit each.**
- MUS 250-253**     **WOODWIND ENSEMBLE**  
Group practice and performance of selected music in chapel, in recital, and in local churches. Individuals are selected by audition. A maximum of four credits may be applied toward graduation requirements. **1 credit each.**
- MUS 255-258**     **BRASS ENSEMBLE**  
Group practice and performance of selected music in chapel, in recital, and in local churches. Individuals are selected by audition. A maximum of four credits may be applied toward graduation requirements. **1 credit each.**
- MUS 260-263**     **STRING ENSEMBLE**  
Group practice and performance of selected music in chapel, in recital, and in local churches. Individuals are selected by audition. A maximum of four credits may be applied toward graduation requirements. **1 credit each.**
- MUS 265-268**     **WIND ENSEMBLE**  
Group practice and performance of selected music in chapel, in recital, and in local churches. Individuals are selected by audition. A maximum of four credits may be applied toward graduation requirements. **1 credit each.**
- MUS 270-273**     **ORCHESTRA**  
Group practice and performance of various orchestral literature, primarily for annual Christmas concerts and spring musical productions. A maximum of four credits may be applied toward graduation. **1 credit each.**
- MUS 275-278**     **FLUTE CHOIR**  
Group practice and performance of selected music in chapel, in recital, and in local churches. Individuals are selected by audition. A maximum of four credits may be applied toward graduation requirements. A minimum of ten students must register for credit in order for the course to be offered. **1 credit each.**
- MUS 313, 314**     **MUSIC HISTORY I & II**  
*Prerequisites: MUS 124, 126, HUM 202.* A survey of the historical development of musical styles and the literature representative of those styles including listening and score study. MUS 313 covers medieval, renaissance, and baroque styles and MUS 314 covers classic, romantic, and modern styles. **3 credits each.**
- MUS 323**     **FORM & ANALYSIS**  
*Prerequisites: MUS 224, 226.* A study of the development of form in music beginning with simple two-part forms, 16th-century counterpoint, and concluding with sonata-allegro form. Most of the class work consists of music analysis by the student. **2 credits.**

## COURSE DESCRIPTIONS

- MUS 324 ORCHESTRATION & ARRANGING**  
*Prerequisites: MUS 124, 126.* Basics of instrumentation including transpositions, ranges, and technical limitations of orchestral instruments. Principles of arranging apply primarily to choral arrangements of hymns. **2 credits.**
- MUS 332 PIANO PEDAGOGY AND LITERATURE**  
*Prerequisites: MUS 124, 126.* A study of the methods, techniques, and basic literature for teaching piano. Required of all piano principal students. **2 credits.**
- MUS 334 VOCAL PEDAGOGY AND LITERATURE**  
*Prerequisite: MUS 124, 126.* A study of the methods, techniques, and basic literature for teaching voice. Required of all voice principal students. **2 credits.**
- MUS 341 BRASS TECHNIQUES**  
*Prerequisites: MUS 124, 126.* Basic class instruction in brass instrument pedagogy. **1 credit.**
- MUS 342 PERCUSSION TECHNIQUES**  
*Prerequisites: MUS 124, 126.* Basic class instruction in percussion instrument pedagogy. **1 credit.**
- MUS 351 ELEMENTS OF CONDUCTING**  
*Prerequisites: MUS 124, 126.* Basic time-beating gestures and patterns, both traditional and modern. Basic baton techniques and expressive gestures; cues, fermatas, cut-offs, tempo changes; conducting terminology; and basic score reading. **1 credit.**
- MUS 352 CHORAL CONDUCTING**  
*Prerequisites: MUS 124, 126, 351.* Application of basic conducting techniques specifically to choral music and to interpreting the choral score. Conducting recitative; choral style; consonants and vowels; breathing; tone quality and intonation; balance; attack and release; seating charts; and basic choral score reading. **1 credit.**
- MUS 353 INSTRUMENTAL CONDUCTING**  
*Prerequisites: MUS 124, 126, MUS 351.* Application of basic conducting techniques specifically to instrumental music and to interpreting band and orchestral scores. Problems of intonation, balance, attack, and release and of string, woodwind, brass and percussion instruments. The instruments in the score; clefs; bowings; instrument ranges; seating charts; and basic score reading. **1 credit.**
- MUS 354 CHORAL LITERATURE**  
*Prerequisites: MUS 124, 126, HUM 202.* A survey of choral literature through all the style periods of music history. Major emphasis is the examination of shorter and longer forms of sacred choral works. **2 credits.**
- MUS 356 CHURCH MUSIC ADMINISTRATION**  
*Prerequisites: HUM 202, instructor's approval.* Philosophies of music in worship based on the Scriptures and our Christian heritage; organizing and administering a church music program; the responsibilities of the minister of music. **2 credits.**

## COURSE DESCRIPTIONS

- MUS 358 EVANGELISTIC SONGLEADING**  
Fundamentals of basic conducting as it applies to leading congregational singing. **1 credit.**
- MUS 364 HYMNOLOGY**  
*Prerequisites:* MUS 124, 126, HUM 202. A survey of hymn history and development of hymnody from Biblical times to the present day. **2 credits.**
- MUS 401 CHURCH MUSIC PRACTICUM**  
*Prerequisite:* Senior status. Senior Church Music majors will be assigned a local church in which to serve as assistant minister of music under the supervision of a music faculty member. This is to provide valuable on-the-job training to the future church music director in the areas of worship leadership, song leading, choir directing, and possibly orchestra directing and piano and/or organ playing. **0 credit.**
- MUS 423 COUNTERPOINT**  
*Prerequisites:* MUS 224, 226. The study of composition for examples and principles of counterpoint with particular emphasis on counterpoint techniques represented in Bach's works. Emphasizes fundamental principles of tonal functions, voice leading, harmonic formulae, and compositional devices to create original examples of two- and three-part counterpoint and canon. **2 credits.**
- MUS 441 STRING TECHNIQUES**  
*Prerequisites:* MUS 124, 126. Basic class instruction in string instrument pedagogy. **1 credit.**
- MUS 442 WOODWIND TECHNIQUES**  
*Prerequisites:* MUS 124, 126. Basic class instruction in woodwind instrument pedagogy. **1 credit.**
- MUS 451, 452 MUSICAL COMPOSITION I AND II**  
*Prerequisites:* MUS 224, 226. Designed to train the student to compose in two, three and four voices with emphasis on the melody. One requirement will be to compose a church hymn. The student will also learn to apply harmony learned in previous courses by harmonizing original melodies. How to make the most out of the music cell, the row, and other creative melodic devices. Group and individual lessons. **1 credit each.**
- MUS 492 MUSIC SEMINAR**  
*Prerequisites:* MUS 224, 226, 314, HUM 202. Capstone course reviewing major areas of music study. Required of all senior music majors. Interaction of faculty with advanced students in an area of musical study. Requires formulation of a written personal philosophy of music. **2 credits.**
- MUS 495 MUSIC RECITAL**  
Senior Music recital. Students are graded on an S/U basis. Recital fee: \$150. **0 credit.**

## COURSE DESCRIPTIONS

### *Courses in Physical Education*

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- PHE 109 CONCEPTS OF LIFETIME FITNESS (M/W)**  
Required of all students. This course is designed to prepare the student to evaluate, develop, and maintain a personal level of health-related fitness. Special emphasis is placed upon participation in aerobic activities. **1 credit.**
- PHE 151 INTRODUCTION TO PHYSICAL EDUCATION**  
Introduction to physical education as a profession, including an overview of the fields of study within physical education. **2 credits.**
- PHE 211 TEACHING TEAM SPORTS**  
This course enables the student to analyze the mechanics, develop teaching cues, and provide for error detection and correction of team sport skills. This course is reserved for the physical education major. **2 credits.**
- PHE 212 TEACHING INDIVIDUAL AND DUAL SPORTS**  
This course enables the student to analyze the mechanics, develop teaching cues, and provide for error detection and correction of individual and dual sport skills. This course is reserved for the physical education major. **2 credits.**
- PHE 271 PREVENTION & CARE OF ATHLETIC INJURIES**  
Studies the principles and procedures for the immediate and long-term prevention, treatment, and care of athletic-related injuries. Red Cross certification is given. Course fee: \$40. **3 credits.**
- PHE 279-280 EXERCISE SCIENCE PRE-PRACTICUM**  
These courses are designed to provide each student with practical experience on campus in the exercise science area, specifically athletic training. The student will assist with training room sessions, sport practices, and or games. Graded on an S/U basis. **0 credit.**
- PHE 304 CONDITIONING AND FITNESS**  
Methods of instruction are given in the area of nutrition, conditioning, and fitness. Emphasis is placed on the role of exercises and personal fitness. Evaluation of physical fitness is analyzed and studied. **3 credits.**
- PHE 305 NUTRITION**  
A study of the nutrients; their sources, functions, and utilization; their relationship to health and development. Examines the need for reliable nutrition information, education, and dietetics. **3 credits.**
- PHE 310 PRINCIPLES AND PSYCHOLOGY OF COACHING**  
An introduction to the area of coaching. Includes the study of psychosocial factors related to sport performance. **2 credits.**

## COURSE DESCRIPTIONS

- PHE 311-319 THEORY AND PRACTICE IN COACHING SPORTS**  
Discussions of positions, strategy of offense, defense, and team play. Emphasis on developing Christian character in student athletes. **2 credits each.**  
311 Volleyball                      317 Baseball  
313 Basketball                      319 Softball  
315 Soccer
- PHE 320 COACHING PRACTICUM**  
A field experience assisting with a college or high school sports team. Advanced departmental approval is required. Graded on a credit/no credit basis. **2 credits.**
- PHE 340 MOTOR LEARNING AND DEVELOPMENT**  
An overview of motor development along with the study of theories, principles, and concepts that increase the capability of a person in performing a motor or sport skill. The student will be involved in lectures and laboratory experiences in motor learning and performance. **3 credits.**
- PHE 371 ADVANCED ATHLETIC TRAINING**  
*Prerequisite: PHE 271.* Care and prevention of athletic injuries. Advanced analysis and practiced application of the principles of sports medicine and athletic injuries. An in-depth study of the role and techniques of the athletic trainer. Course fee: \$40. **3 credits.**
- PHE 378 KINESIOLOGY**  
*Prerequisites: SCI 104, 204.* Examines the anatomical origins, insertions, and innervations of muscles. Specific emphasis is on anatomical development and muscle physiology. **3 credits.**
- PHE 379-380 EXERCISE SCIENCE PRE-PRACTICUM**  
These courses are designed to provide each student with practical experience on campus in the exercise science area, specifically athletic training. The student will assist with training room sessions, sport practices, and or games. Graded on an S/U basis. **0 credit.**
- PHE 472 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS**  
*Prerequisite: PHE 151.* Studies of the organizational and administrative duties and problems related to physical education and athletic programs in the school. **2 credits.**
- PHE 473 SPORTS MANAGEMENT PRACTICUM I**  
A field experience introducing the student to the organization and administration of a sports center, athletic department, health club, etc. Advanced departmental approval is required. Graded on an S/U basis. **2 credits.**
- PHE 474 SPORTS MANAGEMENT PRACTICUM II**  
A field experience for the student to assist the organization and administration of a sports center, athletic department, health club, etc. Advanced departmental approval is required. Graded on an S/U basis. **2 credits.**

## COURSE DESCRIPTIONS

### **PHE 476 SPORTS MINISTRY PRACTICUM I**

*Departmental approval is required.* A field experience introducing the student to the organization and administration of a sport-related ministry. Graded on an S/U basis. **2 credits.**

### **PHE 477 SPORTS MINISTRY PRACTICUM I**

*Department approval is required.* A field experience for the student to assist in the organization and administration of a sport-related ministry. Graded on an S/U basis. **2 credits.**

### **PHE 478 EXERCISE PHYSIOLOGY**

*Prerequisites: SCI 104, 204.* Studies acute and chronic adaptations of various bodily systems to exercise. **3 credits.**

### **PHE 479 EXERCISE SCIENCE PRACTICUM I**

A field experience introducing the student to an area of exercise science such as a sports medicine clinic, physical therapy center, etc. Advanced departmental approval is required. Graded on an S/U basis. **2 credits.**

### **PHE 480 EXERCISE SCIENCE PRACTICUM II**

A field experience in assisting and applying concepts and principles in the area of exercise science such as a sports medicine clinic, physical therapy center, etc. Advanced departmental approval is required. Graded on an S/U basis. **4 credits.**

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## *Courses in Philosophy*

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### **PHI 201 INTRODUCTION TO PHILOSOPHY**

A study of the issues of philosophy centered in such classical problems as truth, knowledge, origins, values, and religious experience. Includes a survey of the leading systems of philosophy. All systems are compared and contrasted with the Christian world view based on divine revelation. **3 credits.**

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## *Courses in Political Science*

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### **POS 231 AMERICAN CONSTITUTIONAL GOVERNMENT**

A historical study of the origins, framing, and ratification of the U.S. Constitution with an emphasis on the structure of American government and the development of the distinctly American theory and practice of constitutionalism. **3 credits.**

### **POS 349 HISTORY OF U.S. PRESIDENTIAL ELECTIONS**

See HIS 349. **3 credits.**

### **POS 492 POLITICAL SCIENCE INTERNSHIP**

One semester field experience in Washington, D.C., offered in conjunction with a government agency or political organization. **6 credits.**

## *Courses in Psychology*

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- PSY 210 GENERAL PSYCHOLOGY**  
*Prerequisite to all other courses in psychology.* A survey of the field including the biological roots of behavior, perception, learning, motivation, emotion, and social behavior. Introduces specialized fields of psychology. **3 credits.**
- PSY 215 INTERMEDIATE PSYCHOLOGY**  
*Prerequisite: PSY 210.* An intermediate study of neurophysiology, sensation, perception, cognition, learning, memory, and language, including an emphasis on the endocrine system and emotions. Through critical thinking, students will filter all content through a Scriptural frame of reference, especially in the review of theories of developmental, social, and clinical psychology. **3 credits.**
- PSY 220 BIBLICAL COUNSELING TRAINING**  
*Prerequisites: PSY 210 and Psychology major or permission of professor.* Teaches how to examine one's emotions and relationships Biblically. Compares and contrasts Biblical and humanistic ways of handling life's problems. **3 credits.**
- PSY 230 INTERMEDIATE PSYCHOLOGY PRACTICUM**  
*Prerequisites: PSY 210, 220.* Intermediate Practicum is an exposure to the task of Biblical counseling. This course is designed to assist the student with the development of a helping framework with a Biblical foundation. The student will develop skills needed to aid others in managing the problem situations of their lives more effectively. Opportunity will be afforded to observe and perhaps experience counseling situations through volunteering at an approved organization. **3 credits.**
- PSY 240 ADOLESCENT PSYCHOLOGY**  
*Prerequisites: PSY 210, 220.* Studies the emotional and interpersonal dynamics of human beings between the developmental characteristics of childhood dependency and adult commitments, such as marriage and career. **3 credits.**
- PSY 250 MARRIAGE AND THE FAMILY**  
*Prerequisites: PSY 210, 220, 240.* Examines the characteristics which foster commitments for a lifetime and the foundations for raising strong, healthy children. **3 credits.**
- PSY 260 CHILD PSYCHOLOGY**  
*Prerequisites: PSY 210, 220, 240, 250.* Studies the physical, spiritual, cognitive, emotional, and social development of human life from birth through late childhood. **3 credits.**
- PSY 272 EDUCATIONAL PSYCHOLOGY**  
See EDU 272. **3 credits.**
- PSY 330 CLINICAL AND COUNSELING PSYCHOLOGY**  
*Prerequisites: PSY 210-250 (unless waived by psychology department).* The principal approaches to counseling are considered. Methods in group and individual counseling; theories and procedures used in clinical and counseling psychology. **3 credits.**

## COURSE DESCRIPTIONS

### **PSY 340 NEUROPHYSIOLOGY**

*Prerequisites:* PSY 210-250 (unless waived by psychology department). Studies the historical roots and methods of neurophysiology; neurons, synapses, neurotransmitters; as well as the anatomy of the nervous system—including the visual, auditory, olfactory, vestibular, and somesthetic systems. **3 credits.**

### **PSY 350 ABNORMAL PSYCHOLOGY**

*Prerequisites:* PSY 210-250 (unless waived by psychology department). Studies the cause of personality disorganization including neurotic and psychotic behavior and their origin, classification, and symptoms. Surveys diagnosis, therapy, and prevention. **3 credits.**

### **PSY 450 PSYCHOLOGY PRACTICUM**

*Prerequisite:* Senior standing in the psychology department; departmental approval. The student gains practical experience in a specialty area by doing volunteer work in an approved organization. This knowledge will be reinforced with classroom sharing and instruction one to three hours per week and supervised field work a minimum of five hours per week. **3 credits.**

### **PSY 460 EXPERIMENTAL PSYCHOLOGY**

*Prerequisites:* PSY 210-250. An introduction to the research process including the basic nature of research, simple research designs, and statistics for the behavioral sciences, with an emphasis on laboratory skills and reporting. Required for graduate work in psychology. Lab fee: \$35. **3 credits.**

### **PSY 465 SOCIAL PSYCHOLOGY**

*Prerequisites:* PSY 210-250. A scientific study of how people think about, influence, and relate to one another, with an emphasis on attitudes and beliefs. **3 credits.**

### **PSY 470 PERSONALITY THEORY**

*Prerequisites:* PSY 210-250. Studies the organization, classification, and dynamics of personality. **3 credits.**

### **PSY 471-474 DIRECTED STUDY IN PSYCHOLOGY**

*Prerequisite:* Department approval. This course is tailored to fit the special needs of the students involved. Course descriptions may vary with the course needs. **471 = 1 credit; 472-474 = 2 credits each.**

### **PSY 491 PSYCHOLOGY SEMINAR**

*Prerequisites:* PSY 210-470. Reviews major areas of study within the field of psychology, evaluating the student's knowledge of major concepts throughout the field. **3 credits.**

## *Courses in Science*

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### **SCI 104 GENERAL BIOLOGY I**

An introduction, with laboratory experiences and Christian-creationist perspective, to the major concepts in life science that affect our society and concept of self: DNA and chemical effects on living cells; reproduction and life before birth; disease, aging, and death; ecology; origin and history of life on earth; understanding the scientific enterprise. **3 credits.**

## COURSE DESCRIPTIONS

### SCI 105 GENERAL BIOLOGY II

*Prerequisite:* SCI 104. A continuation of SCI 104. Laboratory SCI 195 required.  
**3 credits.**

### SCI 106 PHYSICAL SCIENCE

An introduction to the fundamentals of matter and energy, emphasizing the Biblical teaching of a literal six-day creation for interpreting scientific data. This course is designed for non-science and elementary education majors with a laboratory component incorporated into the course. **3 credits.**

### SCI 107 EARTH SCIENCE

An introduction to the fundamentals of geology and astronomy, emphasizing the Biblical teaching of a literal six-day creation and a universal Flood for interpreting scientific data.  
**3 credits.**

### SCI 151 MEDICAL TERMINOLOGY

Introduction to biomedical terminology through the study of prefixes, suffixes, and root words. **1 credit.**

### SCI 194 BIOLOGY I LAB

Lab work in biology. Lab fee: \$40. **1 credit.**

### SCI 195 BIOLOGY II LAB

Lab work in biology. Lab fee: \$40. **1 credit.**

### SCI 201 GENERAL PHYSICS I WITH LAB

*Prerequisite:* MAT 140 or equivalent. Basic principles and laboratory work. Topics include force balances, Newton's laws of motion, conservation of momentum, properties of fluids, phase changes, and gas laws. Laboratory required. Lab fee: \$40. **4 credits each.**

### SCI 202 GENERAL PHYSICS II WITH LAB

*Prerequisite:* SCI 201 or equivalent. A continuation of General Physics I (SCI 201). Topics include acoustics, electricity and magnetism, electromagnetic radiation, optics, and radioactivity. Laboratory required. Lab fee: \$40. **4 credits.**

### SCI 204 ANATOMY AND PHYSIOLOGY I WITH LAB

*Prerequisite:* SCI 104. This course consists of a study of the structures and functions of the human body. This semester covers cells, tissues, the integument, skeletal system, muscular system, nervous system, and endocrine system. Laboratory required. Lab fee: \$40.  
**4 credits.**

### SCI 205 ANATOMY AND PHYSIOLOGY II WITH LAB

*Prerequisite:* SCI 204. A continuation of SCI 204. Covers digestion, the respiratory system, circulatory system, urinary system, reproduction, and development. Laboratory required. Lab fee: \$40. **4 credits.**

## COURSE DESCRIPTIONS

### SCI 210 HISTORY AND PHILOSOPHY OF SCIENCE

*Prerequisites:* SCI 104, 106 or 107. The history of science beginning with the earliest human history recorded in Genesis chapter 1; the divine mandate for science (Genesis 1:28) and the philosophical underpinnings of secular and Biblically-based science are emphasized. **3 credits.**

### SCI 251 GENERAL CHEMISTRY I WITH LAB

*Prerequisite:* High school Algebra II or MAT 140 may be taken concurrently. Basic principles and laboratory work. Topics include the mole concept, stoichiometry, solutions, gas thermochemistry, quantum theory, and chemical bonding. Laboratory required. Lab fee: \$40. **4 credits.**

### SCI 252 GENERAL CHEMISTRY II WITH LAB

*Prerequisite:* SCI 251 or equivalent. A continuation of General Chemistry I (SCI 251). Topics include chemical equilibrium, acids and bases, reaction equilibrium and reaction rates, electrochemistry, nuclear chemistry, and introductory organic chemistry. Laboratory required. Lab fee: \$40. **4 credits.**

### SCI 304 BOTANY WITH LAB

*Prerequisite:* SCI 104. Anatomy and physiology of seed plants and a systematic survey of all major plant groups, living and fossil, including laboratory and field work. Laboratory required. Lab fee: \$40. **4 credits.**

### SCI 305 INVERTEBRATE ZOOLOGY WITH LAB

*Prerequisite:* SCI 105. A systematic survey, with extensive laboratory and field work, of the major invertebrate groups, contrasting creationist and evolutionist concepts of phylogeny and the meaning of the taxonomic hierarchy. Laboratory required. Lab fee: \$40. **4 credits.**

### SCI 306 ORGANIC CHEMISTRY I WITH LAB

*Prerequisite:* SCI 252 or equivalent. Nomenclature, structure, physical properties, reactions, and preparation of carbon compounds. Laboratory required. Lab fee: \$40. **4 credits.**

### SCI 307 ORGANIC CHEMISTRY II WITH LAB

*Prerequisite:* SCI 306. A continuation of Organic Chemistry I (SCI 306) with special emphasis on compounds of biological importance. Laboratory required. Lab fee: \$40. **4 credits.**

### SCI 320 ECOLOGY

*Prerequisite:* SCI 104. A study of ecology emphasizing the interrelationships of various systems and man's stewardship of the earth's resources. **3 credits.**

### SCI 321- 322 FIELD BIOLOGY

Field study emphasizing the biology and related geology of selected sites in the United States. Course fee: includes travel and camping expenses; varies with the location of the site. **2 credits each.**

### SCI 329 MARINE BIOLOGY

*Prerequisites:* SCI 105, 305. A study of marine life in natural environments with emphasis on ecological factors and relationships. Course fee: \$125 plus scuba option. **3 credits.**

## COURSE DESCRIPTIONS

- SCI 330 MICROBIOLOGY WITH LAB**  
*Prerequisites:* SCI 104, 194. The study of microbes, especially bacteria, with emphasis on laboratory skills broadly useful in medical and environmental sciences. Laboratory required. Lab fee: \$40. **4 credits.**
- SCI 375 PALEONTOLOGY**  
*Prerequisites:* SCI 105, 106, 305. The study of fossils including an extended field trip, with emphasis on field collection techniques, identification, and biosystematic relationships. Course fee: \$75. **3 credits.**
- SCI 402 CELL BIOLOGY**  
*Prerequisite:* SCI 105, 252. This course will integrate molecular biology, DNA structure, RNA structure and activity into cell biology. This will include cell morphology as well as physiology. These areas will include distribution of proteins, membrane structure, activities of mitochondria, microtubule and genetic inheritance. Other topics may be introduced as time permits. **3 credits.**
- SCI 410 GENETICS WITH LAB**  
*Prerequisite:* SCI 105. Molecular, neo-Mendelian, and population genetics, including DNA, meiosis, and problem solving, concluding with a discussion of the limits of hereditary variability and the nature and origin of species. Laboratory required. Lab fee: \$35. **4 credits.**
- SCI 420 BIOCHEMISTRY**  
*Prerequisite:* SCI 104, 105, 205, 251, 252. The study of the chemical and physical properties of the major constituents of cells and body fluids. This includes the mechanisms and utilization of amino acids, carbohydrates, lipids, proteins, and nucleic acids. Also included are enzymes, bioenergetics, and nutrition. **3 credits.**
- SCI 479 SCIENCE SEMINAR**  
*Prerequisite:* Senior status in biology or pre-med majors. Special topics and content review in the science programs. **1 credit.**
- SCI 480 SENIOR RESEARCH**  
*Prerequisite:* five laboratory courses and approval of cooperating faculty. Research culminating in a written scientific report. Lab fee: \$40. **2 credits.**
- SCI 481-482 DIRECTED STUDY IN SCIENCE**  
*Prerequisite:* department approval. This course is tailored to fit the special needs of the students involved. Course descriptions may vary with the course needs. **4 credits each.**
- SCI 491 ORIGINS SEMINAR**  
*Prerequisites:* Senior status. Capstone course. Topics in origins research from a creationist perspective. **1 credit.**

## COURSE DESCRIPTIONS

### *Courses in Secretarial Science*

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**SEC 101 OFFICE PROCEDURES**

Students develop ability and skill in a variety of office responsibilities. Covers duties expected of a secretary in the normal operations of a business office including the use of modern office equipment. Course fee: \$10. **3 credits.**

**SEC 107 KEYBOARDING/WORDPROCESSING I**

Students learn the touch system of keyboarding and develop accuracy, rhythm, and speed. Presents form, arrangement, and style of business letters and other business documents. Course fee: \$40. **3 credits.**

**SEC 108 KEYBOARDING/WORDPROCESSING II**

*Prerequisite:* SEC 107. Experience in typing a wide variety of cards, envelopes, reports, manuscripts, forms, and general correspondence. Course fee: \$40. **3 credits.**

**SEC 210 OFFICE TECHNOLOGY**

*Prerequisites:* SEC 107, 108. The operation of standard and newly emerging business equipment found in modern offices, including technology associated with reproductions, storage and retrieval, data distribution such as transcriptions equipment, word processors, electronic calculators, and computer-related functions such as specialized software, telephone, video conferencing, electronic mail, FAX, photocopiers. Course fee: \$20. **3 credits.**

**SEC 300 MEDICAL TRANSCRIPTION**

*Prerequisites:* SEC 107, 210. An overview of common medical office terminology, documents, and procedures. Course fee: \$12. **2 credits.**

**SEC 310 RECORDS MANAGEMENT**

*Prerequisite:* SEC 108. An introduction to the comprehensive field of records management, emphasizing the principles and practices of effective records management for manual and automated records systems. **2 credits.**

**SEC 315 LEGAL TRANSCRIPTION**

*Prerequisites:* SEC 107, 108, 210. An overview of common legal office terminology, documents, and procedures. Course fee: \$12. **2 credits.**

### *Courses in Special Education*

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**SED 200 INTRODUCTION TO EXCEPTIONAL STUDENTS**

Examines the foundations of special education, including historical perspectives, current trends and issues, and service delivery models. It provides elementary and special education majors with recommended procedures for teaching children who have learning disabilities, behavior disorders, hearing impairments, visual impairments, mental retardation, physical challenges, and those who are gifted and talented. **3 credits.**

- SED 331 STRATEGIES FOR TEACHING STUDENTS WITH SPECIFIC LEARNING DISABILITIES**  
*Prerequisite: SED 200.* Instructional strategies will be analyzed for teaching students with specific learning disabilities. Topics include teaching basic skills, the adaptation of existing curriculum, and principles in the development, implementation, and evaluation of the individualized educational plan (IEP). **3 credits.**
- SED 341 STRATEGIES FOR TEACHING STUDENTS WITH MENTAL RETARDATION**  
*Prerequisite: SED 200.* Instructional strategies for teaching children with mental handicaps will be discussed. Topics include special approaches to teaching academic, adaptive, and social skills, key principles in the development, implementation, and evaluation of the individualized educational plan (IEP). Students will have experiences with adaptive and assistive technologies. **3 credits.**
- SED 410 TESTS & MEASUREMENTS OF EXCEPTIONAL STUDENTS**  
*Prerequisite: SED 200.* Investigation of formal and informal evaluation techniques and the interpretation, application, and communication of results. Emphasis is placed on the use of assessment information for educational programming and individualization of instruction. **3 credits.**
- SED 420 BEHAVIOR AND EDUCATIONAL MANAGEMENT OF EXCEPTIONAL STUDENTS**  
*Prerequisite: SED 200.* Provides an analysis of classroom organization, behavior management, and consultation skills. Emphasis is placed on spiritual principles of nurturance, child training, and discipline. **3 credits.**
- SED 421 STRATEGIES FOR TEACHING STUDENTS WITH BEHAVIOR DISORDERS AND EMOTIONAL HANDICAPS**  
*Prerequisite: SED 200.* Instructional strategies will be explored for teaching children and youth with emotional or behavioral disorders. Topics include the development and implementation and evaluation of the individualized education plan (IEP), motivational strategies, technology, and Biblical models for self-discipline. **3 credits.**
- SED 430 PERSONAL DEVELOPMENT OF EXCEPTIONAL STUDENTS**  
*Prerequisite: SED 200.* Students will learn methods of teaching social and personal skills to exceptional students. Topics include interpersonal relationships, goal setting, individual responsibility, interest inventories, career awareness, vocational training, and transition planning for adult living. **3 credits.**

