

READ 0099, ENGL 0099, and MATH 0099; and FRSC 2243, FRSC 2255 and FRSC 2265 with a grade of "C" or better. A course in forestry and business management principles and techniques, including measurement of site productivity, determination of timber stand growth and yield, valuation of forest land and premerchantable timber stands, and forest investment analysis. Summer.

GEOG 1101 INTRODUCTION TO HUMAN GEOGRAPHY. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A survey of global patterns of resources, population, culture, and economic systems. Emphasis is placed upon the factors contributing to these patterns and the distinctions between the technologically advanced and less advanced regions of the world. Spring.

GNDR 1101 INTRODUCTION TO GENDER STUDIES. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. A survey course designed to introduce students to the social, cultural, and intellectual concepts of an interdisciplinary field that views gender not only as a major topic of study, but as a tool to analyze modern life. Fall.

HIST 1111 WORLD HISTORY I. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A survey of World History to early modern times. The course focuses on the progress of humankind, the ancient societies of the world, the impact of religion on intellectual thought, the formation of social institutions, key social movements, and the political, social, and economic forces which spawned the development of current global trends. Fall.

HIST 1112 WORLD HISTORY II. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A survey of World History from early modern times to the present. Issues addressed include the emergence of democracy, totalitarianism, nationalism, and internationalism; analysis of the principal social institutions with the factors and forces influencing them; and the economic aspects of societies during these centuries. Spring.

HIST 2111 UNITED STATES HISTORY I. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A survey of United States history to the post-Civil War period. This course covers the major social, economic, political, and cultural issues which accompanied the development of American life from pre-Columbian beginnings to Reconstruction. A particular emphasis will be placed on the role of Georgia in the development of the nation. Fall, Spring, Summer.

HIST 2112 UNITED STATES HISTORY II. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A survey of United States history from the post-Civil War period to the present. This course covers the major social, economic, cultural, and political issues in American history since the Civil War. A particular emphasis will be placed on the role of Georgia in the development of the nation. This course satisfies state law requiring examination on Georgia and United States history. Fall, Spring, Summer.

HIST 2112H UNITED STATES HISTORY II (HONORS). 3 hours. A survey of United States history from the post-Civil War period to the present. This course covers the major social, economic, cultural, and political issues in American history since the Civil War. A particular emphasis will be placed on the role of Georgia in the development of the nation. This course is taught as a seminar and emphasizes greater student interaction. This course satisfies state law requiring examination on Georgia and United States history. Fall.

HIST 2201 AFRICAN AMERICAN HISTORY. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. An introduction to the history of African-Americans in the United States, emphasizing their African heritage and their unique historical evolution in American society. This study also includes an analysis of the institutions and personalities which influenced and shaped the social, economic, political, and cultural developments of the African-American community and American civilization. Fall odd-numbered years.

HIST 2232 MINORITIES IN AMERICAN HISTORY. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. Ethnic, socio-cultural, and economic perspectives will be employed in considering the essential pluralism of American society from colonial times to the present. Patterns of inclusion and exclusion of minorities throughout American history will be analyzed to give students a clear understanding of the significance of ethnic and cultural diversity in the evolution of modern American society. Fall even-numbered years.

HIST 2255 INTRODUCTION TO GEORGIA AND LOCAL HISTORY. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. An examination of Georgia history from colonial times to the present. By concentrated study of selected issues in state development, the course attempts to develop critical thinking and deeper appreciation of the historical process at the state and local level. Spring odd-numbered years.

HMSR 2101 COOPERATIVE FIELDWORK EXPERIENCES IN HUMAN SERVICES I. 4 hours. Prerequisite: SOCI 2110 Students placed in work situations approved by the Coordinator of Human Services will receive academic credit. This course is not recommended to students planning to transfer to a four-year college. The Coordinator will outline the educational objectives to be attained by students and have the co-op

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employers agree to provide the opportunity for students to meet these objectives. Final grades will be assigned by the Coordinator. Fall.

HMSR 2102 COOPERATIVE FIELDWORK EXPERIENCES IN HUMAN SERVICES II. 4 hours. Prerequisite: HMSR 2101. Students placed in work situations approved by the Coordinator of Human Services will receive academic credit. This course is not recommended to students planning to transfer to a four-year college. The Coordinator will outline the educational objectives to be attained by students and have the co-op employers agree to provide the opportunity for students to meet these objectives. Final grades will be assigned by the Coordinator. Spring.

HNRS 1101 HONORS SEMINAR. 1 hour. Freshman level honors seminar built around the concepts of "self," "society," and "nature." Basic questions of human existence are explored in an interdisciplinary manner. The seminars also serve as an orientation to college life and are taken in place of ABAC 1000 by honors program students. Fall.

HNRS 1102 HONORS SEMINAR. 1 hour. Freshman level honors seminar built around the concepts of "self," "society," and "nature." Basic questions of human existence are explored in an interdisciplinary manner. These seminars also serve as an orientation to college life and are taken in place of ABAC 1000 by honors program students. Spring.

HNRS 2101 HONORS SEMINAR. 1 hour. Sophomore level honors seminar. Selected special topics are explored in an environment that fosters both collaborative and independent learning. As needed.

HNRS 2102 HONORS SEMINAR. 1 hour. Sophomore level honors seminar. Selected special topics are explored in an environment that fosters both collaborative and independent learning. As needed.

HORT 2201 PRINCIPLES OF HORTICULTURE. 3 hours. Discussions and laboratories addressing basic botany and principles of plant growth. Plant responses to varying climatic, environmental, and plant factors applicable to fruits, vegetables, and ornamentals will be emphasized. Transfer credit to senior colleges. Fall.

HORT 2202 GROUNDS MAINTENANCE EQUIPMENT. 3 hours. Discussions and laboratories addressing the selection, operation, and maintenance of power equipment used in various grounds maintenance programs. This course will acquaint students with the various types of mechanized equipment used in maintenance, production, and planting operations and to teach respect for power while learning how to operate and use the equipment safely and to the best advantage. Costs analysis of equipment will be emphasized. Spring.

HORT 2206 EXPERIENTIAL LEARNING IN PRODUCTION. 3 hours. A conference and practical experience course directed toward the ornamental production student. Projects selected by the student and the advisor will form the basis of this course. Individual and group problems related to the projects will be discussed. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall and Spring.

HORT 2207 EXPERIENTIAL LEARNING IN LANDSCAPE. 3 hours. A conference and practical experience course directed toward the landscape student. Projects selected by the student and the advisor will form the basis of this course. Individual and group problems related to the projects will be discussed. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall and Spring.

HORT 2208 EXPERIENTIAL LEARNING IN TURFGRASS. 3 hours. A conference and practical experience course directed toward the turfgrass student. Projects selected by the student and the advisor will form the basis of this course. Individual and group problems related to the projects will be discussed. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall and Spring.

HORT 2215 LANDSCAPE DESIGN. 4 hours. Discussions and laboratories addressing the principles of landscape design as applied to residential as well as commercial properties. Emphasis is placed on the theory and principles of landscape design and planning using mechanical drafting and computer skills. Sketching and plan presentation will be stressed also. Spring.

HORT 2220 PRODUCTION INTERNSHIP (EXPERIENTIAL LEARNING). 12 hours. On job training for students in Ornamental Production. Orientation session must be completed prior to placement. Detailed worksheets and project assignment to be completed during placement. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall, Spring, Summer.

HORT 2221 GREENHOUSE OPERATIONS AND MANAGEMENT. 4 hours. Discussions and laboratories addressing the status of the greenhouse industry with emphasis on locations, plans, structures and markets as applicable to the commercial crops of greenhouses. The economics and practices of greenhouse operations as related to controlled environment structures as well as propagation methods for commercial greenhouse crops. Spring odd years.

HORT 2230 GOLF TURF INTERNSHIP (EXPERIENTIAL LEARNING). 12 hours. On job training for students in Golf Turf Management. Orientation session must be completed prior to placement. Detailed worksheet and project assignment to be completed during placement. Critical and rational thinking skills and

problem-solving abilities will be exercised. Fall, Spring, Summer.

HORT 2231 TURFGRASS SCIENCE AND TECHNOLOGY. 3 hours. Discussions and laboratories addressing turfgrass cultivar and seed identification, selection, and establishment. The primary and secondary cultural practices will be identified and studied. Fall.

HORT 2232 TURF AND ORNAMENTAL PEST MANAGEMENT. 3 hours. Discussions and laboratories addressing turfgrass and ornamental pests. Weed, insect, disease, and nematode management programs will be emphasized. Spring.

HORT 2233 GOLF COURSE DESIGN AND MANAGEMENT. 3 hours. Discussions and laboratories addressing principles and practices in design, development, and management of golf courses. Selection and utilization of turfgrass materials, development of specifications for their nutritional, chemical, and mechanical maintenance, equipment, labor management, and public relations will be discussed. Spring.

HORT 2234 COMMERCIAL TURF MANAGEMENT 3 hours. Discussions and laboratories addressing site preparation and establishment in commercial turfgrass production. Basic and applied management programs, pricing, customer relations, scheduling, and personnel management will be emphasized. Fall.

HORT 2235 COMPUTERIZED GROUNDS MAINTENANCE 3 hours. Discussions and laboratories addressing computerized grounds and golf course management. The GCS for Windows software program will be the basis of this course. Budgets and expenses, inventory and purchase orders, personnel and labor, equipment and maintenance, chemicals and calibrations, schedules and events, irrigation management, and graphics will be discussed. Fall.

HORT 2236 ENVIRONMENTAL ISSUES. 3 hours. Three discussions addressing environmental issues in golf course construction and management, the role and conservation of water resources, environmental impacts of turfgrass fertilization and pesticides, development of integrated management systems for turfgrasses, wildlife and golf courses, wetlands and golf courses, and aquatic and terrestrial toxicities. Fall.

HORT 2237 SPORTS TURF MANAGEMENT. 3 hours. Discussions and laboratories addressing installation and maintenance of all sports and athletic fields. Emphasis will be placed on the development of maintenance plans, problem solving and event scheduling. Spring.

HORT 2238 FUNDAMENTALS OF GRINDING TECHNOLOGY. 3 hours. Discussion and laboratories addressing proper blade, reel, and bedknife grinding and maintenance. Competencies will be identified and assessed through each technology and grinding application. Students will be exposed to multiple techniques and grinding procedures. Fall and Spring.

HORT 2239 GROUNDS IRRIGATION SYSTEMS. 3 hours. Discussions and laboratories addressing turfgrass and landscape irrigation systems including basic installation, repairs, and troubleshooting. Fall and Spring.

HORT 2240 GROUNDS INTERNSHIP (EXPERIENTIAL LEARNING). 12 hours. On job training for students in Landscape Management. Orientation session must be completed prior to placement. Detailed worksheet and project assignment to be completed during placement. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall, Spring, Summer.

HORT 2241 GROUNDS MANAGEMENT. 4 hours. Discussions and laboratories addressing principles in selection, establishment and maintenance of ornamental trees, shrubs, groundcovers, lawns, and flower areas. Planting procedures, pruning, mulching, fertilization, bracing, cabling, and bark and cavity repair will be discussed. Fall.

HORT 2250 COMMERCIAL TURF INTERNSHIP (EXPERIENTIAL LEARNING). 12 hours. On job training for students in Commercial Turf Management. Orientation session must be completed prior to placement. Detailed worksheet and project assignment to be completed during placement. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall, Spring, Summer.

HORT 2260 SPORTS TURF INTERNSHIP (EXPERIENTIAL LEARNING). 12 hours. On job training for students in Sports Turf Management. Orientation session must be completed prior to placement. Detailed worksheet and project assignment to be completed during placement. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall, Spring, Summer.

HORT 2261 NURSERY CROP PRODUCTION. 4 hours. Discussions and laboratories addressing production of nursery crops, labor and sales management, retail and wholesale nurseries, location, layout, equipment, and facilities as well as propagation methods used for woody ornamentals. Spring even years.

HORT 2270 WOODY ORNAMENTAL PLANT IDENTIFICATION. 3 hours. Discussions and laboratories addressing the cultural practices and landscape values of woody ornamental plant materials. Laboratory practices will include identification of plants commonly used in landscape planting. Fall and Spring.

HORT 2271 HERBACEOUS ORNAMENTAL PLANT IDENTIFICATION. 3 hours. Discussions and laboratories addressing the identification of common and outstanding herbaceous ornamentals. Cultural practices and

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landscape values of herbaceous ornamentals will be discussed. Spring.

HORT 2280 INTERNSHIP II (EXPERIENTIAL LEARNING) 12 hours. Advanced on job training for students in Environmental Horticulture needing further industry experience. Orientation session must be completed prior to placement. Detailed worksheet and project assignment to be completed during placement. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall, Spring, Summer.

HORT 2290 GOLF CLUBHOUSE INTERNSHIP (EXPERIENTIAL LEARNING). 12 hours. On job training for students in Golf Club Management. Orientation session must be completed prior to placement. Detailed worksheet and project assignment to be completed during placement. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall, Spring, Summer.

HORT 2291 GOLF CLUBHOUSE OPERATIONS 3 hours. Discussions addressing time, service, and personnel management including the training of new employees, avoiding overlapping functions, and balancing workloads. Also, cost controls, foods, beverages, labor, insurance, securities, taxes, regulations, computers, communication marketing, telephone courtesy, and customer service will be emphasized. Fall odd years.

HORT 2292 GOLF CLUBHOUSE MANAGEMENT. 3 hours. Discussions addressing clubhouse planning, professional dining room management, swimming pool management, mobile refreshment management, and newsletter development and edition. Also, menu design merchandising and marketing, menu engineering (customer demand, menu mix analysis, and item contributions margin), perspectives, (delegating, food cost question, retaining managers, developing annual operational and capital budgets, and forecasting the club industry), preventing internal theft, club by-laws and contracts, and responsible beverage service will be emphasized. Fall even years.

HORT 2293 EXPERIENTIAL LEARNING IN GOLF CLUBHOUSE MANAGEMENT. 3 hours. A conference and practical experience course directed toward the golf clubhouse management student. Projects selected by the student and the advisor will form the basis of this course. Individual and group problems related to the projects will be discussed and presented in written and verbal format. Critical and rational thinking skills and problem-solving abilities will be exercised. Fall and Spring.

HUMN 1100 TOPICS IN THE HUMANITIES. 1 hour. An exploration of issues and ideas related to the study and/or practice of the humanities in the contemporary world. Topics will vary. Fall, Spring.

HUMN 2221 WESTERN WORLD HUMANITIES I. 3 hour. Prerequisite: ENGL 1102 with a grade of "C" or better. Designed to foster in the student some knowledge and appreciation of literature, music, painting, sculpture, and architecture in the following art periods: Greek, Roman, early Christian, Romanesque, Gothic, and Renaissance. Fall, Spring, Summer.

HUMN 2222 WESTERN WORLD HUMANITIES II. 3 hour. Prerequisite: ENGL 1102 with a grade of "C" or better. Designed to foster in the student some knowledge and appreciation of literature, music, painting, sculpture, and architecture in the following art periods: Baroque, Rococo, Classic, Romantic, and Twentieth Century. Fall, Spring, Summer.

ISCI 2001 LIFE AND EARTH SCIENCE FOR ELEMENTARY TEACHERS. 3 hours. Prerequisite: SCIE 1005 and 1005L with a grade of "C" or better and MATH 1101 or 1111 with a grade of "C" or better. This is an Area F science course for early childhood education majors. The learning outcome and topics of the course are intended to focus on central themes in life and earth science. Themes include: Characteristics of life, cells, heredity, biodiversity, interdependence of life, energy flow, earth systems, lithosphere, hydrosphere and biosphere. This is an activity based class with two hours of lecture and two hours of lab integrated together. Fall, Spring and Summer as needed.

ISCI 2002 PHYSICAL SCIENCE FOR ELEMENTARY TEACHERS. 3 hours. Prerequisite: PHSC 1011 and 1011L with a grade of "C" or better. This course is an Area F science course for early childhood education majors. The learning outcomes and topics of the course are intended to focus on central themes in physical science. Themes include: matter, energy, forces, electromagnetic/gravitational fields and astronomy. This is an activity based class with two hours of lecture and two hours of lab integrated together. Fall, Spring and Summer as needed.

ITEC 2215 INTRODUCTION TO INFORMATION TECHNOLOGY. 3 hours. Prerequisite: CISM 2201 with minimum grade of "C" or approval of instructor. This is an introduction to the nature and applications of Information Technology. Students become familiar with the concepts and terminology of IT, including hardware, software, networks, databases, and the Internet. They also study examples of ways in which tools of IT are applied in the workplace. Fall.

ITEC 2220 MICROCOMPUTER HARDWARE AND SOFTWARE CONCEPTS. 3 hours. Prerequisite: A basic knowledge of computer applications. This course will provide coverage of the functions and architecture of computer hardware; operating system functions, installation, and configuration; and extensive hands-on experience in computer set-up, operation and maintenance. A student passing both parts of the A+ Certification Exam may receive credit by exam for this course. Fall.

ITEC 2230 ADVANCED OFFICE APPLICATIONS. 3 hours. Prerequisite: CISM 2201 with a minimum grade of "C". This course is designed to develop a student's advanced word processing skills in the areas of macros, document merging, graphics, and desktop design. Additionally, advanced spreadsheet skills will be covered including data tables, data management, and macros. Focus will be placed on the integration of output from one software program to another. Students passing both expert level MOUS (Microsoft Office User Specialists) exams in Excel 2000 and Word 2000 may receive credit by exam for this course. Spring.

ITEC 2236 INTRODUCTION TO MULTIMEDIA FOR THE WEB. 3 hours. Prerequisite: CISM 2201 with minimum grade of "C". Basic design principles and tools for creating multimedia web sites including coverage of techniques for capturing, editing, storing, and retrieving content for presentation and web delivery of video. Spring.

ITEC 2245 MICROCOMPUTER DATABASE MANAGEMENT. 3 hours. Prerequisite: CISM 2201 with minimum grade of "C". This course will cover the principles and practices in information modeling and database design; methods to analyze information requirements, devise data models, construct schemas and implement models within common database management software; use of DBMS software to create databases, perform queries, produce reports and perform standard maintenance functions. Students passing the MOUS (Microsoft Office User Specialist) exam in Access 2000 may receive credit by exam for this course. Spring.

ITEC 2260 COMPUTER PROGRAMMING I. 3 hours. Prerequisite: CISM 2201 with minimum grade of "C". Students learn to write modular, well-documented programs. Topics begin with an overview of problem-solving methods, algorithms, modules, program flow, flowcharting, pseudo-code, and documentation. This is followed by instruction in data types and basic control structures, including loops, conditionals, arrays, subroutines, files, and records. Weekly programming assignments employ these features as they are introduced. Fall.

ITEC 2261 WEB APPLICATIONS DEVELOPMENT. 3 hours. Prerequisite: CISM 2201 with minimum grade of "C". This course is a survey of techniques and tools for developing Web-based information processing applications; page description languages, scripting languages, data structuring languages, file and database access methods and other technologies for creating dynamic, data-driven web sites. Fall.

ITEC 2370 COMPUTER PROGRAMMING II. 3 hours. Prerequisite: ITEC 2260 with a minimum grade of "C". This course introduces advanced Visual Basic controls and programming techniques that are used in developing high-level windows applications. Topics include: advanced database handling; data validation routines; error handling procedures; keyboard events; developing menus, toolbars, and status bars; drag and drop events; graphics and animation handling; ActiveX controls; dynamic link libraries (DLL); object linking and embedding (OLE); and object oriented (OO) techniques.

JRNL 1100A, JOURNALISM SEMINAR. 1 hour. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. Practical application and study of journalistic techniques in the production and operation of student literacy magazine Pegasus. The equivalent of at least twenty internship-oriented hours must be logged by the student each semester. Fall, Spring.

JRNL 1100B, JOURNALISM SEMINAR. 1 hour. Practical application and study of journalistic techniques in production work with ABAC's student radio station, WPLH 103.1 FM. The equivalent of twenty internship-oriented hours must be logged by the student each semester.

JRNL 1100C, JOURNALISM SEMINAR. 1 hour. Practical application and study of journalistic techniques in the production and operation of student newspaper The Stallion. The equivalent of at least twenty internship-oriented hours must be logged by the student each semester. Fall, Spring.

JRNL 1101 INTRODUCTORY JOURNALISM. 4 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099; and Co-requisite/Prerequisite: ENGL 1101. A survey of contemporary mass media focused on journalism history and current trends, particularly in the area of news gathering. Students will also study and practice basic news writing and photojournalism techniques. Fall.

JRNL 2060 NEWS WRITING AND REPORTING. 4 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099; and JRNL 1101 or approval of instructor. A study and practical application of basic news reporting, writing, editing, photojournalism, and design techniques for the print media. Spring.

MATH 0090 REMEDIAL MATH. 5 hours. Five hours of lecture each week. This course is designed to help the student with an understanding of the fundamental processes with whole numbers, fractions, decimals, percents, and signed numbers. The course will increase the students' knowledge and competency in geometry concepts and in solving linear equations. Required of a student scoring below an established cut-off score on the pre-algebra placement exam. MATH 0090 is the course that prepares a student for MATH 1002. Fall, Spring.

MATH 0097 BEGINNING ALGEBRA. 4 hours. Emphasis is placed on those topics of beginning algebra and the fundamentals of basic algebra. Required of a student scoring below an established cut-off score on the placement exam. Fall, Spring, Summer

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MATH 0099 INTRODUCTORY ALGEBRA. 4 hours. Prerequisite: MATH 0097 with a grade of "C" or better, or a satisfactory score on the MATH 0097 exemption test. A short review of beginning algebra followed by additional algebra topics including real number operations on algebraic expressions, algebraic fractions, exponents and radicals, graphing equalities and inequalities. Fall, Spring, Summer.

MATH 1002 TECHNICAL MATHEMATICS. 3 hours. Prerequisite: Exemption from or successful completion of MATH 0090. Three hours of lectures each week. A study of basic mathematical processes and concepts, metric conversion, elementary descriptive geometry and trigonometry with applications, percent, ratio and proportion and simple algebraic operations. Fall, Spring, Summer as needed.

MATH 1101 MATHEMATICAL MODELING. 3 hours. Prerequisite: Exemption from or successful completion of MATH 0099 and READ 0099. This course is an introduction to mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real-world data and phenomena. Emphasis is on the use of elementary functions to investigate and analyze applied problems and questions, supported by the use of appropriate technology, and on effective communication of quantitative concepts and results. Fall, Spring, Summer as needed.

MATH 1105 MATHEMATICAL INQUIRY FOR TEACHERS. 3 hours. Prerequisite: Exemption from or successful completion of MATH 0099; and MATH 1101 or higher with a grade of C or better. A problem-centered treatment of mathematics including the general content areas of probability, statistics, geometry, and algebra. Designed for elementary education majors. Fall, Spring.

MATH 1111 COLLEGE ALGEBRA. 3 hours. Prerequisite: Exemption from or successful completion of MATH 0099 and READ 0099. Three hours of lecture each week. This course is a functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of linear, quadratic, piece-wise defined, rational, polynomial, exponential and logarithmic functions, their graphs and applications. Fall, Spring, Summer.

MATH 1112 TRIGONOMETRY. 3 hours. Prerequisite: Exemption from or successful completion of MATH 0099; and MATH 1111 with a grade of C or better or exemption from MATH 1111. Three hours of lecture each week. A study of the trigonometric functions and their inverses, further study of complex numbers. Fall, Spring, Summer as needed.

MATH 1113 PRE-CALCULUS MATHEMATICS. 4 hours. Prerequisite: Exemption from or successful completion of MATH 0099; and High School Trigonometry and MATH 1111 exemption; or High School Trigonometry and MATH 1111 with a grade of "C" or better; or score on placement test. This course is designed to prepare students for calculus, physics, and related technical subjects. Topics include an intensive study of algebraic and transcendental functions and analytic geometry. Fall, Spring.

MATH 2000 STATISTICS. 3 hours. Prerequisite: Exemption from or successful completion of MATH 0099; and MATH 1101 or MATH 1111 with a grade of "C" or better or exemption. Three hours of lecture each week. An introduction to basic descriptive and inferential statistics. Includes measures of central tendency, variability and position; statistical graphs including the stem and leaf plot, box plot, dot plot, frequency polygon, histogram, circle graph, and ogive; confidence intervals, hypothesis testing, and other applications involving the binomial, normal, t, chi-square, and F-distributions; and correlation and regression analysis. The emphasis is on applications rather than on mathematical theory, and both calculator and computer techniques will be stressed. Fall, Spring, Summer as needed.

MATH 2003 APPLIED CALCULUS. 3 hours. Prerequisite: Exemption from or successful completion of MATH 0099; and MATH 1111 with a grade of C or better or exemption from college algebra. Three hours of lecture each week. An overview of analytical geometry and an introduction to calculus with application to problems in business, economics, and social science. Among topics included are analysis and applications of linear and polynomial functions, analysis and applications of differentiation, and analysis and applications of exponential and logarithmic functions. The course is designed for business majors and is not acceptable for science or mathematics majors. Spring.

MATH 2008 FOUNDATIONS OF NUMBERS AND OPERATIONS. 3 hours. Prerequisite: Minimum grade of "C" or better in either MATH 1101, 1111, or 1113. This course is an Area F introductory mathematics course for early childhood education majors. This course will emphasize the understanding and use of the major concepts of numbers and operations. As a general theme, strategies of problem solving will be used and discussed in the context of various topics. Credit for this course is excluded from Area D of the Core Curriculum, and excluded from any Career Technological degree program. Fall, Spring, Summer.

MATH 2053 CALCULUS I. 4 hours. Prerequisite: Exemption from or successful completion of MATH 0099; and MATH 1112 or MATH 1113 with a grade of C or better, or score on placement test. Four hours of lecture/demonstration each week. A first course in the techniques and theory of the calculus. Topics include: limits, continuity, differentiation and integration, applications of the derivative and the integral. Fall, Spring, Summer as needed.

MATH 2054 CALCULUS II. 4 hours. Prerequisite: Exemption from or successful completion of MATH 0099; and MATH 2053 with a grade of C or better. Four hours of lecture/demonstration each week. Topics

include further study of applications of derivative and integral, transcendental functions, polar coordinates, conic sections, infinite series. Fall, Spring.

MATH 2055 CALCULUS III. 4 hours. Prerequisite: Exemption from or successful completion of MATH 0099; and MATH 2054 with a grade of C or better. Four hours of lecture/demonstration each week. Topics in real-valued functions of several variables, including vector calculus, three-dimensional analytic geometry, partial differentiation, elementary linear algebra, vector spaces, three dimensional geometry, multiple integration and applications. Spring.

MATH 2208 INTRODUCTION TO LINEAR ALGEBRA. 3 hours. Prerequisite: Exemption from or successful completion of MATH 0099; and Minimum grade of 'C' in MATH 2053 or MATH 2003 or exemption. Three hours of lecture each week. Study of systems in linear equations, matrices, determinant, linear transformations, vector spaces, least squares, and eigenvectors and eigenvalues. Spring

MGMT 2165 FUNDAMENTALS OF MANAGEMENT. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. This course is designed to give a student the knowledge of the applied management techniques, practices, and principles that are universally accepted in contemporary business. Emphasis is placed on the decision-making process and to solve management problems of planning, organizing, staffing, directing and controlling. As needed.

MGMT 2166 SMALL BUSINESS MANAGEMENT. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099. A study of various small business patterns designed to acquaint students with the problems and procedures of starting a business venture. Strong emphasis will be placed on entrepreneurial opportunities and new venture processes, as well as coverage of managerial activities needed for successful operation of small firms. As needed.

MGMT 2167 HUMAN RESOURCE MANAGEMENT. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. Includes an introduction to the nature of employer/employee relationships, a study of contemporary human relations techniques employed by business managers, as well as a survey of the primary functions of personnel administration including recruiting, selection, interviewing, training, testing, and supervision. As needed.

MKTG 2175 PRINCIPLES OF MARKETING. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. Principles and methods involved in the movement of goods and services from producer to consumer. Market institutions and functions are discussed. Special attention to problems encountered in managing the Marketing Mix. As needed.

MKTG 2176 ADVERTISING AND SALES PROMOTION. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. Designed to acquaint the student with all phases of sales promotion, advertising, display, direct mail, radio, and TV. Actual practice in developing material in accordance with modern technique. As needed.

MKTG 2177 PERSONAL SELLING. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. Designed to develop persuasive oral communication skills and their practical application to the basic principles of selling. The study of product information and its presentation, determination of customer needs, buying motives, customer analysis, opportunities in selling and personality requirements of salespeople. As needed.

MUSC 1000 KEYBOARDS NON-MAJOR. 2 hours. Basic, progressive instruction in keyboarding instruments. Designed for a student not majoring in music and who may not take MUSC 1001. Fall, Spring.

MUSC 1001 KEYBOARDS MUSIC MAJORS ONLY. 2 hours. Basic, progressive instruction in keyboard instruments. Fall, Spring.

MUSC 1100 MUSIC APPRECIATION. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. An introduction into the basics of music and a study of masterpieces of music literature, as well as a brief overview of the history of music. This course is designed for those individuals who have little background or basic knowledge of music. Fall, Spring, Summer.

MUSC 1134 ELEMENTARY MUSIC THEORY. 2 hours. Prerequisite: Exemption from or successful completion of MATH 0099. Pitch, meters, scales, modes, keys, intervals, triads and seventh chords, elementary diatonic harmony, composition of melody and bass lines; melodic and rhythmic dictation and solfeggio; elementary keyboard skills. Students should already be proficient at reading music. Three lectures and two ear training/keyboard labs per week. Fall.

MUSC 1135 ELEMENTARY MUSIC THEORY. 2 hours. Prerequisite: MUSC 1134. Continuation of written harmony through extended alteration of tertian harmony and modulation, secondary dominants; analysis and composition of simple musical forms; continuation of dictation, solfeggio, and keyboard harmony. Three lectures and two ear training/keyboard labs per week. Spring.

MUSC 1181 A, B APPLIED MUSIC. 1 hour. One 30-minute lesson a week in piano, organ, other instrument or voice. Designed for a music major taking a secondary applied. Fall, Spring.

Course Descriptions

MUSC 1182 A, B APPLIED MUSIC. 2 hours. One 50-minute lesson a week in piano, organ, other instrument or voice. Designed for a music major taking a principal applied. For a music major only. Fall, Spring.

MUSC 2234 ADVANCED MUSIC THEORY. 2 hours. 2 lab hours per week. Prerequisite: MUSC 1100. Melodic and harmonic material, analysis of small forms (binary and ternary) with harmonic analysis involving primary and secondary chords and including chromaticism and modulation; altered chords and their functions. The Music computer lab consists of ear-training, melodic and rhythmic dictation, sight-singing and basic keyboard harmony. Required of all students majoring in music. Three lectures and two ear training/keyboard labs per week. Fall.

MUSC 2235 ADVANCED MUSIC THEORY. 2 hours. Neapolitan and augmented chords, chromatic chord forms (chromatic mediant, altered dominant, and borrowed chords), advanced modulation, advanced form (rondo and sonata-allegro), contemporary techniques, including extended chords, quartal and secondary harmony, twelve-tone rhythmic devices, sight-singing, eartraining, keyboard harmony, and analysis. Continuation of creative work. Spring.

MUSC 2080 CONCERT BAND. 1 hour. Open to any student who has been a member of a junior or senior high school band. Fall, Spring.

MUSC 2281 A, B, C, D APPLIED MUSIC. 1 hour. One 30-minute lesson a week in piano, organ, other instrument or voice. Designed for a music major taking a secondary applied. Fall, Spring.

MUSC 2282 A, B, C, D APPLIED MUSIC. 2 hours. One 50-minute lesson a week in piano, organ, other instrument or voice. Designed for a music major taking a principal applied. For a music major only. Fall, Spring.

MUSC 2287 JAZZ CHOIR. 1 hour. Open to any student who is a member of the chorus and who can qualify. Fall, Spring.

MUSC 2090 CONCERT CHOIR. 1 hour. Open to any student who has been a member of a school or church choir. Fall, Spring.

MUSC 2290 JAZZ ENSEMBLE. 1 hour. Open to any student who is a member of the concert band and who can qualify. Gives a student the opportunity to experience all types of jazz musical styles (blues, swing, rock, and improvisation) through the actual playing of instruments in a small ensemble. Audition required. Fall, Spring.

MUSC 2291 SMALL GROUP ENSEMBLE. 1 hour. Open to any student who can sing or suitably play a musical instrument. Audition Required. Fall, Spring.

NURS 1108 NURSING I- FUNDAMENTALS. 6 hours. Co-requisite: NURS 1109. This course is a study of the concepts and psychomotor skills that provide the foundation for nursing theory and practice. A major focus is on the utilization of the nursing process to care for clients from young adulthood through later maturity who require assistance in meeting physiological and psychosocial needs. Lecture/Lab/Clinical (4-2-4). Fall, Spring

NURS 1109 NURSING II- HEALTH & PHYSICAL ASSESSMENT. 3 hours. Co-requisite: NURS 1108. This course is a study of the basic skills that provide the foundation for nursing assessment. The major focus of this course is on physical assessment of all body systems. Nutritional and psychosocial assessment is included. Lecture/Lab (3-1-0). Fall, Spring.

NURS 1110 NURSING III- MEDICAL/SURGICAL ONE. 6 hours. Prerequisite: NURS 1108 & 1109 with a C or better. Co-requisite: BIOL 2012 & BIOL 2012 L. This course is a study of the perioperative client and clients with gastrointestinal, musculoskeletal, respiratory, cardiovascular, immunological, neurological, and psychosocial dysfunctions. The major focus of this course is on utilization of the nursing process to care for clients experiencing these dysfunctions. Lecture/Lab/Clinical (4-1-5). Fall, Spring.

NURS 1113 NURSING IV- HEALTH PROMOTION AND DISEASE PREVENTION THROUGH THE LIFESPAN. 2 hours. Prerequisite: 1108 & 1109 with a c or better. Co-requisite: NURS 1110, BIOL 2012 & BIOL 2012L. The nursing process is utilized to address health promotion and disease prevention for all ages and population groups – individuals, families and communities. Normal growth and development as well as specific problems and health promotion issues common to each stage is discussed. Lecture (2-0-0). Fall, Spring.

NURS 2207 NURSING V- MEDICAL/SURGICAL TWO. 6 hours. Prerequisite: NURS 1110, NURS 1113 & BIOL 2050/BIOL 2050L with a C or better. Co-requisite: NURS 2208. This course is a study of clients with cardiovascular, endocrine, gastrointestinal, genitourinary, immunological, neurological, and psychosocial dysfunctions. The major focus of this course is on utilization of the nursing process to care for clients experiencing these dysfunctions. Lecture/Clinical (4-0-6). Fall, Spring.

NURS 2208 NURSING VI- MATERNAL-CHILD & WOMEN'S HEALTH. 4 hours. Prerequisite: NURS 1110, NURS 1113 & BIOL 2050/BIOL 2050L with a C or better. Co-requisite: NURS 2207. This course is a study

of female clients from adolescence through later maturity and newborn infants. The major focus of this course is on utilization of the nursing process to care for maternity clients, newborn infants and clients experiencing dysfunctions specific to females. Lecture/Clinical (3-0-3). Fall, Spring.

NURS 2209 NURSING VII- PEDIATRICS. 4 hours. Prerequisite: NURS 2207 & 2208 with a C or better. Co-requisite NURS 2210 & NURS 2211. This course is a study of the nursing care of culturally diverse pediatric clients from infancy through adolescence with an emphasis upon wellness and dysfunctions. The major focus of this course is on the utilization of the nursing process to meet the wellness, physiological, and psychosocial needs of pediatric clients. Lecture/Clinical (3-0-3). Fall, Spring.

NURS 2210 NURSING VIII- MEDICAL/SURGICAL THREE. 4 hours. Prerequisite: NURS 2207 & 2208 with a C or better. Co-requisite: NURS 2209 & 2211. This course is a study of clients with cardiovascular, endocrine, genitourinary, immunological, neurological, integumentary, musculoskeletal, respiratory, and psychosocial dysfunctions. The major focus of this course is on utilization of the nursing process to care for clients experiencing complex and/or multiple dysfunctions. Lecture/Clinical (3-0-3). Fall, Spring.

NURS 2211 NURSING IX- ENTRY INTO PROFESSIONAL PRACTICE. 3 hours. Prerequisites: NURS 2207 & 2208 with a C or better. Co-requisite: NURS 2209 & 2210. This course is a study of the leadership and management component of registered nursing. The student learns to synthesize and apply previously learned theories and principles to client situations involving a variety of ages, cultures and situations. The leadership/manager role of the registered nurse is addressed. Employability skills are discussed. Lecture/Clinical (2-0-3). Fall, Spring.

NURS 1109B NURSING I- HEALTH & PHYSICAL ASSESSMENT. 3 hours. Co-requisite: NURS 1115B. A study of the basic skills that provide the foundation for nursing assessment. The major focus of this course is on physical assessment of all body systems. Nutritional, psychosocial and community assessment are included. Labs build on students' prior knowledge and experience of physical assessment. Lecture/Lab (3-1-0). Summer.

NURS 1115B NURSING II- TRANSITION TO ASSOCIATE DEGREE NURSING. 3 hours. Co-requisite: NURS 1109B. The major focus of this course is on role transition and selected concepts from nursing courses offered during the first year of nursing. It fosters matriculation into the second year of the Associate in Science in Nursing Program. The clinical and skills lab experience builds on prior healthcare experience and involves a community project. Lecture/Lab/Clinical (3-1-2). Summer.

NURS 2207B NURSING III- MEDICAL/SURGICAL TWO. 6 hours. Prerequisite: NURS 1109B, NURS 1115B & BIOL 2050/BIOL 2050L with a C or better. Co-requisite: NURS 2208B. This course is a study of clients with cardiovascular, endocrine, genitourinary, immunological, neurological, and psychosocial dysfunctions. The major focus of this course is on utilization of the nursing process to care for clients experiencing these dysfunctions. Clinical activities build on prior healthcare experience and incorporate a community project follow-up. Lecture/Lab (4-0-6). Fall.

NURS 2208B NURSING IV- MATERNAL-CHILD & WOMEN'S HEALTH. 4 hours. Prerequisite: NURS 1109B, NURS 1115B & BIOL 2050/BIOL 2050L with a C or better. Co-requisite: NURS 2207B. This course is a study of female clients from adolescence through later maturity and newborn infants. The major focus of this course is on utilization of the nursing process to care for maternity clients, newborn infants and clients experiencing dysfunctions specific to females. A project involving cultural implications is included. Lecture/Lab (3-0-3). Fall.

NURS 2209B NURSING V- PEDIATRICS. 4 hours. Prerequisite: NURS 2207B & 2208B with a C or better. Co-requisite NURS 2210B & 2211B. This course is a study of the nursing care of culturally diverse pediatric clients from infancy through adolescence with an emphasis upon wellness and dysfunctions. The major focus of this course is on the utilization of the nursing process to meet the wellness, physiological, and psychosocial needs of pediatric clients. Clinical experience incorporates preceptorships along with instructor guided activities. Lecture/Clinical (3-0-3). Spring.

NURS 2210B NURSING VI- MEDICAL/SURGICAL THREE. 4 hours. Prerequisite: NURS 2207B & 2208B with a C or better. Co-requisite: NURS 2209B & 2211B. This course is a study of clients with cardiovascular, endocrine, genitourinary, immunological, neurological, integumentary, musculoskeletal, respiratory, and psychosocial dysfunctions. The major focus of this course is on utilization of the nursing process to care for clients experiencing complex and/or multiple dysfunctions. Clinical experience incorporates preceptor experiences and includes evaluation of community project. Lecture/Clinical (3-0-3). Fall, Spring.

NURS 2211B NURSING VII- ENTRY INTO PROFESSIONAL PRACTICE. 3 hours. Prerequisite: NURS 2207B & 2208B. Co-requisite: NURS 2209B & 2210B. This course is a study of the leadership and management component of registered nursing. The student learns to synthesize and apply previously learned theories and principles to client situations involving a variety of ages, cultures and situations. The leadership/manager role of the registered nurse is addressed. Employability skills are discussed. Clinical builds on prior health care experience. Lecture/Clinical (2-0-3). Fall, Spring.