

Course Descriptions

funds, capital structure, dividend policy, working capital management, and evaluation and assessment. Spring.

FRSC 1130 SOILS & HERBACEOUS VEGETATION. 3 hours. A study of basic soil properties and their effects on the growth of non-woody plants. Soil classification and use of soil surveys will be related to plant community composition, and wildlife habitat. An introduction to plant taxonomy and family characteristics will provide background for emphasis placed on plants important as wildlife foods, indicator species, and threatened or endangered species. Fall, Spring.

FRSC 1135 NONGAME WILDLIFE. 2 hours. This course is designed to acquaint student with wildlife management directed at species whose value lies in nonconsumptive use. Emphasis will be placed on terrestrial and aquatic species important as indicators, or categorized as threatened or endangered. Fall, Spring.

FRSC 1140 FOREST MEASUREMENTS & MAPPING I. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and MATH 0099. An introduction to the methods of assessing information on forest resources and presenting relevant information in a map format. Basic instruction will include forest inventory techniques, measuring standing trees, log rules and scaling, growth measurement. Mapping will include basic drafting and plotting techniques, acreage determination, constructing cover maps of forest types and wildlife habitat, and map orientation and interpretation. Fall, Spring.

FRSC 1155 MICROCOMPUTERS IN FOREST RESOURCES. 2 hours. Prerequisite: Exemption from or successful completion of READ 0099 and MATH 0099. An introduction to the use of desktop computers in forestry and wildlife management. Included are basic computer concepts and terminology, use of Windows operating systems, electronic mail, word processing, spreadsheets, and internet resources. Fall, Spring.

FRSC 1160 FOREST SURVEYING. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and MATH 0099. An introduction to surveying which includes surveying terminology, distance and area measurement, coordinate systems, surveying methods and equipment use. Emphasis is placed on use of the hand compass and GPS receivers. Fall, Spring.

FRSC 1170 DENDROLOGY. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. An introduction to plant taxonomy and identification. Specific diagnostic features of major forest species will be discussed, with an emphasis on field identification. Fall, Spring.

FRSC 1190 NATURAL RESOURCE CONSERVATION. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. An introductory course dealing with renewable natural resources and basic concepts of their management. Soil, water, range, forests, wildlife, and fisheries will be emphasized. Fall, Spring.

FRSC 1192 FOREST WILDLIFE MANAGEMENT. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. An introduction to the basic ecological principles which govern the management of wild animal populations. Emphasis will be placed on those concepts which have given rise to present day management principles. The relationships between wildlife species and other natural forest resources will be presented. Fall, Spring.

FRSC 2225 FOREST MEASUREMENTS I. 2 hours. Prerequisite: MATH 1101 with a "C" or better. Introduction to forest products measurements, log rules, volume/weight tables and equations, measurement of standing trees, timber stand inventory techniques, and measurement of growth. Fall.

FRSC 2230 FOREST ECOLOGY & SOILS. 4 hours. Prerequisite: Exemption from or successful completion of READ 0099 and MATH 0099; and FRSC 1190 and ENGL 1101 with a "C" or better. This course includes the basic concepts of soil science and forest ecology; soil and vegetation classification; tree variability and diversity; site and climatic influences on tree growth; and the relationship of trees to other organisms. Fall.

FRSC 2235 FOREST SURVEYING & MAPPING. 4 hours. Prerequisite: Exemption from or successful completion of READ 0099 and MATH 0099; and MATH 1101 with a grade of "C" or better. An introduction to land surveying, map preparation and map interpretation. Topics included are: surveying terminology, distance and area measurement, surveying methods and equipment use (including GPS technology), basic map drafting techniques, coordinate systems, and rectangular systems for land referencing. Fall.

FRSC 2240 FOREST SAFETY. 1 hour. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099. This course will provide the student with a general competency in basic first aid, with an understanding of safety guidelines for equipment use and field work, and provide information on the proper handling of hazardous chemicals. Fall, Summer.

FRSC 2243 GEOGRAPHIC INFORMATION SYSTEMS. 4 hours. Prerequisite: Exemption from or successful completion of READ 0099 and MATH 0099; and FRSC 1155 and FRSC 2235 or FRSC 1160 with a grade of "C" or better. This course includes instruction in the following areas: structure and function of Geographic Information Systems (GIS), map projections and coordinate systems, geographic database editing,

acquisition and interpretation of aerial photographs, incorporation of Global Positioning System (GPS) coordinate data into a GIS, and production of maps. Course emphasis is on GIS in a land management context. Hands-on experience is provided through laboratory exercises employing GIS software. Spring.

FRSC 2250 FOREST PROTECTION. 2 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 2230. This course encompasses identification and control of important forest insects and diseases: fire behavior, weather, and suppression strategies will also be addressed. Spring.

FRSC 2255 FOREST MEASUREMENTS II. 5 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 1155, FRSC 2225, and FRSC 2235 with a grade of "C" or better. Study and application of procedures for determining timber stand volumes, including use of electronic data recorders and computation of sampling statistics. Mapping of forest areas is accomplished using GPS technology as well as traditional methods. Spring.

FRSC 2260 CONSERVATION LAW ENFORCEMENT. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 1192. A summer program designed to acquaint the student with the modern techniques of game and fish law enforcement. Procedures concerned with the prosecution of game and fish law violations will be covered. Field techniques, gun safety, jurisdiction and legal authority will be included. Summer.

FRSC 2261 FOREST GAME MANAGEMENT. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 1192. Classroom and field instruction in game management, to include life histories, diseases, and study of natural habitats and their management throughout Georgia. Summer.

FRSC 2262 AQUATIC RESOURCE MANAGEMENT. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 1192. Classroom instruction plus field work under actual working conditions. This includes taking water temperature, dissolved oxygen samples, hardness readings, fish samples, working nets, seining, operating work boats, and fertilizing of ponds. Summer.

FRSC 2263 ADVANCED WILDLIFE TECHNOLOGY. 3 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 2261, recommend BIOL 2107. Designed to give the student knowledge pertaining to the practical application of techniques necessary for the management of wildlife populations. Use of wildlife literature, basic physiology, necropsy, sex and age determination, etc. will be incorporated. Fall, Spring.

FRSC 2264 WILDLIFE SEMINAR. 1 hour. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 2261 and FRSC 2263 (or concurrent). A capstone course for second-year Wildlife Technology students emphasizing student-lead discussions and demonstrations pertaining to current wildlife management techniques, research, policy, etc. Fall, Spring.

FRSC 2265 SILVICULTURE. 4 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 2230 or FRSC 1130; FRSC 1170 recommended. An introduction to the basic concepts of silvicultural methods and systems that includes all phases of stand management from nursery work to harvest/regeneration systems. Fall, Spring.

FRSC 2266 AQUATIC HABITAT MANAGEMENT. 3 hours. Prerequisite: FRSC 1192. This course will focus primarily on the identification and management of aquatic vegetation. Instruction will include training in formulation and application of aquatic herbicides, water chemistry analysis, and manipulation of habitat to benefit desired fish species. Summer.

FRSC 2270 PRINCIPLES OF SUPERVISION. 2 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. This course provides the student with instruction in the basic concepts of supervision and human relations: personal prejudices, work place diversity, motivation, interviewing skills, conflict management, and performance evaluation. Fall, Spring.

FRSC 2275 FOREST INDUSTRIES. 2 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 2255 with a grade of "C" or better. A survey of forest industries, including tours of woodlands operations and manufacturing facilities. Summer.

FRSC 2280 FOREST HARVESTING. 2 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099; and FRSC 2255 with a grade of "C" or better. A study of timber harvesting techniques and equipment, including logging cost analysis. Summer.

FRSC 2285 FORESTRY SEMINAR. 1 hour. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099. Current research, professional ethics, policy issues, and regional silviculture will be discussed. Summer.

FRSC 2290 TIMBER MANAGEMENT. 5 hours. Prerequisite: Exemption from or successful completion of 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

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measurement of site productivity, determination of timber stand growth and yield, valuation of forest land and premerchantable timber stands, and forest investment analysis. Summer.

FRSC 3111 AGRICULTURE AND RESOURCE MANAGEMENT. 3 hours. Prerequisite: BIOL 1003 with a grade of "C" or better. An introductory course that examines the relationships between agricultural management practices and soil conservation, aquatic resources, and terrestrial wildlife populations. Practical conservation strategies will be emphasized. Spring.

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 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 2100 PROFESSIONALISM IN THE GREEN INDUSTRY. 1 hour. Professional behavior, cover letter and resume writing, interviewing skills, and presentations by industry professionals and students on horticultural topics will be presented. Fall.

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

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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 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.

HORT 3230 INSECT AND NEMATODE MANAGEMENT. 3 hours. Prerequisite: HORT 2232. Managing turfgrass insect and nematode pests, insect and nematode biology and identification, detection and monitoring, safeguarding the environment, integrated insect and nematode management, cultural and biological management, insect and nematode specificity, nuisance pests, innocuous invertebrates, beneficial invertebrates, managing nuisance wildlife problems in the turfgrass environment. Fall.

HORT 3240 WEED MANAGEMENT. 3 hours. Prerequisite: AGRP 1125 or HORT 2232. Managing turfgrass weeds, weed life cycles and identification, safeguarding the environment, weed specificity, grass and grass-like plants, broadleaf plants, herbicide selectivity and specificity, cultural and biological management, plant growth regulators, and integrated weed management programs will be discussed. Spring.

HORT 3250 TURFGRASS DISEASES. 3 hours. Prerequisite: HORT 2232. Managing turfgrass diseases, diseases of warm season turfgrasses, diseases of cool season turfgrasses, diseases common to all turfgrasses, diseases in the transition zone, epidemiology, sampling, diagnosis, signs and symptoms, cultural and biological management, and integrated disease management programs. Spring.

HORT 3310 BEST MANAGEMENT PRACTICES IN TURFGRASS. 3 hours. Prerequisite: HORT 2231 and HORT 2239. Best management practices in turfgrass selection, soil practices, understanding soil physics, construction and establishment, fertilization, irrigation, turfgrass management, pest management and control, pesticide and nutrient management, handling and storage practices, and integrated management practices will be discussed. Fall.

HORT 3500 EXPERIENTIAL LEARNING I IN GOLF COURSE. 2 hours. Prerequisite: HORT 2233. Experiential learning at the campus golf course (Forest Lakes Golf Club) allowing the student to apply learned technical knowledge and experience "on course" activities related to management of golf courses. If sports turf or commercial turf, then selected sites will be provided. Spring.

HORT 3510 SOIL FERTILITY AND CHEMICAL PROBLEMS. 3 hours. Prerequisite: AGRY 2020. Management of soils used in turfgrass, vegetable and crop production. Topics include Soil Use, Alkaline/Acid Soils, Salt-affected Soils, Soil Conservation, Problem Soils, Fertilizers, and Fertility Programs. Fall.

HORT 3520 COMPUTATIONS IN TURFGRASS MAINTENANCE. 2 hours. Prerequisite: HORT 2231 and MATH 1002. Area measurement calculations, volume calculations, fertilizer and pesticide calculations, spreader

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and sprayer calibrations, seeding rate calculations, and integrated computations in turfgrass maintenance will be discussed. Spring.

HORT 4320 MANAGEMENT OF BERMUDAGRASS AND BENTGRASS. 3 hours. Prerequisite: Hort 2231 and HORT 2233. Bermudagrass and bentgrass characteristics, golf green construction and establishment, managing golf greens and athletic fields, bermudagrass winterkill, bentgrass summer stresses, other selected stresses and maladies, chemical usage and programs, and integrated strategies will be discussed. Spring.

HORT 4330 GOLF COURSE CONSTRUCTION, RENOVATION AND GROW-IN. 3 hours. Prerequisite: HORT 2231 and HORT 2233. Management concerns, environmental issues, design interpretation, planting details, agronomic concerns, soil physics and chemistry, as-built plans, cultural practices, erosion and sediment control, cultural program establishment, grow-in specificity and special needs, renovation, and specialized areas of concern will be discussed. Spring.

HORT 4500 EXPERIENTIAL LEARNING II IN GOLF COURSE. 2 hours. Prerequisite: HORT 2233. Advanced experiential learning at the campus golf course (Forest Lakes Golf Club) allowing the student to apply learned technical knowledge and experience "on course" activities related to management of golf courses. If sports turf or commercial turf, then selected sites will be provided. Spring.

HORT 4610 TURFGRASS RESOURCES. 3 hours. Prerequisite: HORT 2233 AND MGMT 2167. Management framework, organizational structure, staffing and directing in human resources, financial management, financial statements, recordkeeping, golf course operations schedule, budgets, leasing and procuring equipment, procuring supplies, investment protection, tournament planning, and sponsorship recruitment. Fall.

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.