

Landscape Technology (AGR)

AGR 101 Introduction to Horticulture

3 Semester hours

Prerequisite: None

An introductory course to the practical and scientific principles of horticulture designed primarily for students majoring in the related fields and non-majors who want a general knowledge of the subject. Topics covered will include the principles of plant growth and development and practical techniques associated with ornamental plant production and gardening. Students will develop an understanding of plant growth, classification, and use. (F)

AGR 113 Spanish for the Green Industry

3 semester hours

Prerequisite: None

This course is designed for non-Spanish-speaking landscapers and horticulturists who need functional language skills and cross-cultural training to comfortably interact with and manage their Spanish-speaking employees in the landscaping industry. (Su)

AGR 120 Ornamental Plant Identification I

3 semester hours

Prerequisite: None

This course is a study of the identification, habits of growth, cultural requirements, and landscape use of ornamental plants of the southeastern United States. Emphasis will be placed on plants that have their greatest design impact during the semester in which the course is taught. The student will learn the common and botanical names of a significant number of landscape plants and demonstrate knowledge of the appropriate use of each plant. (F)

AGR 121 Ornamental Plant Identification II

3 semester hours

Prerequisite: None

This course is a study of the identification, habits of growth, cultural requirements, and landscape use of ornamental plants of the southeastern United States. Emphasis will be placed on plants that have their greatest design impact during the semester in which the course is taught. The student will learn the common and botanical names of a significant number of landscape plants and demonstrate knowledge of the appropriate use of each plant. (Sp)

AGR 122 Ornamental Plant Identification III

3 semester hours

Prerequisite: None

This course is a study of the identification, habits of growth, cultural requirements, and landscape use of ornamental plants of the southeastern United States. Emphasis will be placed on plants that have their greatest design impact during the semester in which the course is taught. The student will learn the common and botanical names of a significant number of landscape plants and demonstrate knowledge of the appropriate use of each plant. (Su)

AGR 125 Turf Management

3 semester hours

Prerequisite: None

Turf management will include the study of all major southern lawn and sports turfgrasses, their establishment and maintenance. Major topics of discussion will include: turf equipment, fertilizers, insect and disease problems, and mowing techniques. Students will learn to evaluate the quality of an existing turf area and prescribe a maintenance program for maximum quality improvements on turf used for lawns, playing fields, and in parks. (Sp)

AGR 126 Sports Field Management

3 semester hours

Prerequisite: AGR 125 or permission of program coordinator

(Lec 2 hrs, Lab 2 hrs)

This course provides instruction on the design, construction, renovation, and maintenance of particular types of sports fields. Areas of discussion will include the principles of sports turf culture, sports field construction and their maintenance. Upon completion, students will be able to design and layout sports fields, and install and maintain turf and other surfaces for sport applications. (F)

AGR 127 Special Topics in Turf Management

3 semester hours

Prerequisite: None (Lab 6 hrs)

This course provides specialized instruction in various areas related to turf management. Emphasis is placed on meeting students' needs. (Su)

AGR 128 Irrigation Systems

3 semester hours

Prerequisite: None (Lec 2 hrs, Lab 2 hrs)

This course is designed to provide students with the information needed to design, layout, and install an irrigation system on residential and commercial properties. Topics of discussion will include system design, cost estimating, installation techniques, and electronic control devices. Upon course completion, students will be able to design and install residential and commercial irrigation systems. (Sp)

AGR 136 Residential Landscape Design

3 semester hours

(Lec 2 hrs, Lab 2 hrs)

The purpose of this course is to provide an overview of the fundamentals of residential site design. Topics included in the course include site measuring and base map preparation, functional diagrams, design principles, and spatial composition. The student will develop a master plan for a residential property complete with a material composition list. (F)

AGR 137 Advanced Landscape Design

3 semester hours

Prerequisite: AGR 136

(Lec 2 hrs, Lab 2 hrs)

This course is a continuation of residential landscape design and

will include design principles as they relate to private residential properties, commercial properties, and public recreational areas. Topics to be covered will include: proposal development, client relations, and presenting a portfolio. The student will develop a project portfolio for presentation giving cost estimate and time required for installation. (Sp)

AGR 150 Annuals and Perennials

3 semester hours

Prerequisite: None

This course covers the identification and use of annuals, biennials, perennials, and bulbs as landscape plants. Topics include identification of herbaceous plants, the use of herbaceous plants, the environmental conditions needed by specific plants, design principles using herbaceous plants, container planting, cultivation techniques, and maintenance requirements. Upon completion, the student will be able to identify a variety of herbaceous plant material, know the environmental and maintenance requirements for each plant, and develop a planting design. (Su)

AGR 151 Interiorscapes

3 semester hours

Prerequisite: None

This course covers the basic principles of interior plantscapes. Topics will include the identification, culture, propagation, use, and design principles of interior plants. Also, discussions will include proper plant care, insect and disease control, and proper plant selection. Upon completion, the student will be able to identify a variety of interior plants, know the environmental and maintenance requirements for each plant, and develop an interior planting design. (as needed)

AGR 152 Landscape Construction

3 semester hours

Prerequisite: None (Lec 2 hrs, Lab 2 hrs)

This course is an introduction to the various phases of landscape construction. Major emphasis will be placed on grading and drainage, site development, irrigation systems, lighting, and other hardscape construction. The student will learn to evaluate a blueprint and reconcile it to the job site. (Sp)

AGR 153 Landscape Equipment

2 semester hours

Prerequisite: None

This course focuses on the proper operation and maintenance of landscape equipment. Topics will include proper operation and uses, routine maintenance checkpoints and procedures, safety, and minor repairs. Upon completion, the student will be able to properly operate, perform routine maintenance, and make minor repairs to a variety of landscape equipment. (as needed)

AGR 160 Landscape Installations

3 semester hours

Prerequisite: None

This course covers the basic techniques involved in the installation of landscape plants. Major topics will include: reading

a site plan, planting various types and sizes of plant material, staking and guying, and site preparation. Students will demonstrate the ability to place plants on a site as specified on a landscape drawing. (F)

AGR 161 Landscape Maintenance

3 semester hours

Prerequisite: None (Lec 2 hrs, Lab 2 hrs)

Landscape Maintenance is designed to improve the student's knowledge and skills in maintaining plant materials in an existing landscape. Major topics of discussion will include pruning, pest management, and selection of maintenance equipment. The student will prepare labor-time estimates and cost analysis for maintaining specifically designated sites. (Sp)

AGR 175 Greenhouse Management

3 semester hours

Prerequisite: None (Lec 2 hrs, Lab 2 hrs)

An introductory course covering the historical use of greenhouse structures and the types of greenhouses commonly used today including the advantages and disadvantages of each. Topics to be discussed will include types of structures, construction techniques, covering materials, and temperature control. (F)

AGR 191 Landscape Practicum

2 semester hours

Prerequisite: Permission of program coordinator

(Int 6 hrs)

This course provides work experience in a college-approved setting in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion of this course, the student will have applied knowledge gained in the Landscape Technology curriculum. (F, Sp, Su)

AGR 212 Soil Science

3 semester hours

Prerequisite: None

This course focuses on the biological, chemical and physical aspects of soil with an emphasis on soil as a medium for plant growth. Topics include fertilization, soil structure, soil classification, erosion control, and soil chemistry. Upon course completion, students should be able to demonstrate an understanding of effective soil fertility management, and conservation practices. (Sp)

AGR 215 Agribusiness Management

3 semester hours

Prerequisite: None

This course focuses on practices essential to establishing and maintaining an agribusiness. Topics include personnel management, finance, customer service, insurance, and record keeping. Upon completion, students will demonstrate an understanding of the requirements to comply with mandated state and federal regulation, manage employees, and meet consumer demands. (Sp)

AGR 220S Plant Propagation

3 semester hours

Prerequisite: None (Lec 2 hrs, Lab 2 hrs)

This course is a study of the essential features of plant structures as it relates to seed production, root formation, wound healing, and other practical phases of plant reproduction. Methods commonly used to reproduce plants by sexual and asexual means will be explained. Students will learn to identify and demonstrate appropriate methods of reproducing plants from seeds, cuttings, and layering. (Sp)

AGR 240 Pest Management

3 semester hours

Prerequisite: None

This course is a study of plant pest affecting the production and maintenance of ornamental plants. Major consideration will be given to arthropods, weeds, and disease causing agents including environmental factors. Students will learn to identify the signs and symptoms of invading insect pests and the characteristics associated with the onset of diseases in turfgrass and ornamental plants. (Sp)

AGR 272 Greenhouse Crop Production

3 semester hours

Prerequisite: AGR 175

(Lec 2 hrs, Lab 2 hrs)

This is an introductory course to the use of greenhouse facilities for the production of foliage and flowering plant crops. Major topics will include propagation, scheduling, soils and media, crop selection, pest management, and methods of production. The student will be provided an opportunity to practice the procedures used to produce a wide range of commercial plant crops. (Sp)

AGR 274 Nursery Crop Production

3 semester hours

Prerequisite: None

(Lec 2 hrs, Lab 2 hrs)

This is an introductory course to the production practices of producing woody ornamentals as container plants and in field growing operations. Major topics will include propagation, soils and media, container selection, and methods of production. The student will develop an understanding of the procedures used to produce a wide range of plants used in the commercial landscape trade. (as needed)

AGR 285 Advanced Studies in Agriculture

2 semester hours

Prerequisite: None

Prerequisite for AGR 285D: AGR 136 or AGR 137 or concurrently with AGR 136 or AGR 137 or permission of instructor (Lab 6 hrs)

This course allows students to do practical research and develop a project of special interest under the guidance and supervision of a faculty member. Students and faculty confer in the selection of a project and in the identification of objectives. Currently courses are taught in D. Computer Aided Design. (as needed)

AGR 286S Seminar

3 semester hours

Prerequisite: None

Seminars are designed to provide students with the opportunity to learn about current topics related to their chosen field of study. These topics are not normally covered in the prescribed course of study, but are important for the student to remain current in the field. May be taken for a maximum of six hours. Currently courses are offered in A. Designing with Native Plants, B. Public Horticulture. (F, Sp, Su)

AGR 287 Urban Forestry

3 semester hours

Prerequisite: None

This course is a basic study of the collective management of individual trees such as those along street, and the management of groups of trees that function together (forestry) such as remnant forest and large mass plantings. The student will develop an understanding of the way trees function and are challenged in the urban landscape setting. Students will learn to identify trees that have become hazardous, and how to evaluate their need for corrective action or removal. (Su)

Management and Supervision Technology (MST)

MST 111 Elements of Supervision

3 semester hours

Prerequisite: None Code C

This course is an introduction to the fundamentals of supervision. Topics include the functions of management, responsibilities of the supervisor, management-employee relations, organizational structure, project management and employee training, and rating. (F, Sp)

MST 201 Human Resource Management

3 semester hours

Prerequisite: None Code C

This course provides an overview of the responsibilities of the supervisor of human resources. Topics include the selection, placement, testing, orientation, training, rating, promotion, and transfer of employees. (Sp)

MST 215 Small Business Management

3 semester hours

Prerequisite: None Code C

This course provides an overview of the creation and operation of a small business. Topics include buying a franchise, starting a business, identifying capital resources, understanding markets, managing customer credit, managing accounting systems, budgeting systems, inventory systems, purchasing insurance, and the importance of appropriate legal course. (Sp)

MST 225 Special Studies in Business Management

3 semester hours

Prerequisite: MST 215 Code C

Under faculty supervision, this course provides a student the