

HORTICULTURE COURSES

110. **Crop Science:** Two hours lecture, two hours lab per week. Basic principles of plant growth as they relate to the production of major horticultural and agronomic crops.
210. **Ornamental Horticulture:** Two hours lecture, two hours laboratory per week. An overview of the ornamental horticulture industry including landscaping, nursery management, retail sales, floriculture, and other types of enterprises. Emphasis is placed on the propagation, production, and use of bedding, tropical foliage and indoor plants.
212. **Fruit and Vegetable Production:** Two hours lecture, two hours lab per week. Factors influencing the successful growing, harvesting, storing and marketing of fruit and vegetable crops. Special focus on low-input farming systems, irrigation efficiency, pest management and alternative crops and technology.
213. **Annuals and Perennials:** Two hours lecture, two hours lab per week. Principles and practices of herbaceous landscape color plants including annuals, perennials, tropical plants and bulbs. Emphasis will be placed on identification, production, use and maintenance of year-round bedding plants in East Texas.
215. **Turfgrass Management 1:** Two hours lecture, two hours lab per week. Principles of turfgrass production and selection; establishment and maintenance of turfgrass for residential and commercial landscape applications.
239. **Basic Landscape Design:** Two hours lecture, two hours lab per week. History and basic principles, formal and informal designs, community planning and zoning. Prerequisites: AGM 120 or some drawing experience.
247. **Landscape Installation:** Two hours lecture, two hours lab per week. Application of design principles including interpretation of plans, costs and bidding, site preparation, construction materials, planting and maintenance.
321. **Greenhouse Management:** two hours lecture, two hours lab per week. Principles of greenhouse management. Prerequisite: HRT-AGN110
322. **Floriculture:** Two hours lecture, two hours lab per week. Principles and practical applications of commercial production of pot plants, cut flower crops, flower arrangements, post-harvest handling and marketing techniques.
324. **Landscape Plant Materials 1:** One hour lecture, four hours lab. Emphasis on plants most commonly used in East Texas landscapes. Requires the identification of 175 small trees, shrubs, vines, ground covers and herbaceous perennials. Prerequisites: six hours of agriculture or consent of instructor.

325. **Design Application Software 1 (CAD):** Two hours lecture, two hours lab per week. Introduction to the use of computer assisted design (CAD) software. Acquaints students with basic 2-D design principles, utilizing the latest CAD architectural software in a computer lab setting. Prerequisites: CSC 121 or 101; AGM 120, or consent of instructor.
326. **Design Application Software II (CAD):** Two hours lecture, two hours lab per week. Advanced course on the use of computer assisted design (CAD) software. Emphasis on three dimensional drawing and customized design. Experience with latest architectural, mechanical and landscape software. Prerequisite: AGM-HRT 325 or HMS 414. (Same as AGM 326).
413. **Nursery Management:** Two hours lecture, two hours lab per week. Study of the principles and practices involved in commercial production, marketing and management of nursery crops. Prerequisite: Six hours of agriculture or consent of instructor.
416. **Plant Propagation:** Two hours lecture, two hours lab per week. Physiological relationships involved in plant propagation-environmental factors as they relate to plant growth structures and nursery conditions. Prerequisite: six hours of agriculture or consent of instructor.
417. **Advanced Landscape Design:** Practical design applications for landscape situations using various plant materials, cost estimation, contracting, construction and maintenance. Prerequisites: HRT 239 and / or HRT-AGM 325.
419. **Turfgrass Management II:** Focuses on the skills needed by golf course, park, and athletic field managers to develop cost-effective management practices for facilities under intensive use. Emphasis is placed on site-specific needs including substrate modification, irrigation and drainage, fertilization, and pest management.
445. **Plant breeding:** Improvement of crops through hybridization and selection with special emphasis on methods of breeding self-pollinated, cross-pollinated and vegetatively propagated plants. Prerequisite: BIO 341 or consent of the instructor.
469. **Plant Protection:** Biological, chemical, cultural and physical control of insects, diseases and weeds, including the concepts of integrated pest management. Prerequisites: BIO plus 12 hours of agriculture or biology.