HORTICULTURE (HORT)

HORT 16001 INTRODUCTION TO HORTICULTURE 1 Credit Hour
A survey of those opportunities available within the "green industry" both in education and as a career option. Guest speakers and field trips are part of the class.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

HORT 16001 or HORT 16001 and BSCI 16001.

HORT 16010 FLORAL DESIGN I 3 Credit Hours
Introduction to the concepts and practices of floral design for use in commercial settings. Topics include floral design theory, history, techniques and the skills required in the commercial floral design industry. Lab experience covers construction of basic floral products.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 16011 FLORAL DESIGN II 3 Credit Hours
Advanced training in a broad array of floral design applications including wedding design, contemporary European and Asian design, tropical flowers and outdoor compositions. Students will be provided hands-on laboratory activities to apply the principles of design.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 16011 FLORAL DESIGN II and HORT 16010.

HORT 16020 PLANT MATERIALS I 3 Credit Hours
Design, selection, culture, and maintenance of flowering plants and foliage including annuals, perennials, bulbs and tropical plants for indoor and outdoor use.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16020 and HORT 16001 or advisor's approval.

HORT 16021 WHOLESALE FLORICULTURE 3 Credit Hours
Commercial production, marketing, inventory management and post-harvest care associated with the floriculture industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16021 and BSCI 16001.

HORT 16022 GREENHOUSE STRATA 3 Credit Hours
Introduction to growing containerized plants in greenhouses and nurseries. Emphasis will be on issues related to traditional and alternative substrates, root media, irrigation practices, and soil matter.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16022 and HORT 16001.

HORT 16022 and HORT 16001 or advisor's approval.

HORT 16022 and HORT 16001.

HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY 2 Credit Hours
Presentation of the basic standards, rules, safety regulations and laws pertaining to horticultural and related industries which will affect the work atmosphere. Lecture two hours weekly; offered only at the Geauga and Salem campuses.
Corequisite: BSCI 16001 and HORT 16001.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HORT 26001 ARBORICULTURE 3 Credit Hours
Basics of pruning and tree climbing techniques. Covers the equipment and safe use of equipment commonly found in the arboricultural industry. Lecture two hours weekly; lab three hours weekly; offered only at the Salem campuses.
Prerequisite: BSCI 16001 and HORT 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 26010 and HORT 26010.

HORT 26010 COOPERATIVE WORK EXPERIENCE IN TREE CARE 3 Credit Hours
(Repeatable for credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience classes will be allowed.
Corequisite: HORT 26010.
Schedule Type: Field Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

HORT 26012 URBAN FORESTRY 3 Credit Hours
Urban forestry and the planning and managing of urban green-scapes. Appraisal and computerized GIS/GPS inventory of urban vegetation, urban land use planning and legal ordinances, maintenance and management of street and park trees. Outdoor field trips and guest lecturers.
Prerequisite: HORT 16001 and BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26012 and HORT 26012.

HORT 26012 IRRIGATION DESIGN AND MAINTENANCE 3 Credit Hours
Principles of irrigation design, installation maintenance and drainage. Specific information about the selection of sprinkler heads, pipe, pumps, basic hydraulics, water conservation methods and automatic control systems shall be explored. Drawing of irrigation plans shall be required.
Prerequisite: HORT 16001 and BSCI 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

HORT 26012 and HORT 26012.

HORT 26012 LANDSCAPE CONSTRUCTION 3 Credit Hours
The basic skills and techniques involved in landscape contracting and construction, including building material data, site grading, contour mapping, deck construction, water features, lighting, landscape paving and retaining walls. Field trips and outside hands-on experience.
Prerequisite: HORT 16001 or advisor's approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

HORT 26012 and HORT 26012.

HORT 26012 and HORT 26012.
HORT 26020  LANDSCAPE MANAGEMENT 3 Credit Hours
A detailed discussion and practice of managing trees, shrubs and flowers within the landscape. Additional concepts such as the types of equipment used in the "green industry," marketing, writing specifications, bidding projects and personnel management.
Prerequisite: BSCI 16001 and HORT 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26021  COOPERATIVE WORK EXPERIENCE IN LANDSCAPE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience will be allowed.
Corequisite: HORT 26020.
Schedule Type: Field Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

HORT 26030  TURF GRASS MANAGEMENT 3 Credit Hours
Basic principles of turf management. Covers turf equipment and the safe use of equipment commonly found in the turf industry. Lecture two hours weekly; lab three hours weekly; course offered only at the Salem campus.
Prerequisite: BSCI 16001 and HORT 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 26031  COOPERATIVE WORK EXPERIENCE IN TURF GRASS MANAGEMENT 3 Credit Hours
(Repeatable for credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience classes will be allowed.
Corequisite: HORT 26030.
Schedule Type: Field Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

HORT 26032  GOLF COURSE MANAGEMENT 3 Credit Hours
The golf course environment as it relates to turf grass maintenance and pest/disease management. The construction and management of greens, tees, water and bunker management practices, turf aerification issues, topdressing and administrative concerns.
Prerequisite: HORT 16001 and HORT 26031 and BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26046  LANDSCAPE DESIGN I 3 Credit Hours
An introduction to landscape appreciation and history, the landscape industry and elements of the landscape design process. Students will assess proper plant placement and uses, develop graphic communication skills and present a project. Field trips and project site work as required.
Prerequisite: HORT 16001 and BSCI 16001 and BSCI 26003.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 4 lab
Grade Mode: Standard Letter

HORT 30195  SPECIAL TOPICS IN HORTICULTURE 3 Credit Hours
(Repeatable for credit) Analysis of significant and current topics in horticulture not covered in regular classes.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 36014  PLANT PROPAGATION AND GREENHOUSE PRODUCTION 3 Credit Hours
Asexual/vegetative propagation including anatomical and physical concepts. Techniques covered include cuttings, budding, grafting, layering, dividing and micropropagation. Plant propagation by seeding and plugs are promoted along with crop production. Students provide an annual production schedule. Lecture two hours weekly; lab three hours weekly.
Prerequisite: HORT 16001 and BSCI 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36018  LANDSCAPE CONSTRUCTION II 3 Credit Hours
Advanced landscape construction techniques involved in landscape contracting with an emphasis on the overall layout and planning of a landscape project. Students master and research product documentation, layout plans, written specifications and detailed construction drawings as they pertain to built landscape environments. Specific field site work with real world applications. Lecture two hours weekly; lab 3 hours weekly.
Prerequisite: HORT 26018; and junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36025  PROFESSIONAL PRACTICE IN HORTICULTURE (WIC) 3 Credit Hours
Investigation into owning and operating a green industry company including customer relations, wholesale and retail marketing, project bidding, potential profit and loss margins, communication requirements, and overall services to public and private clientele.
Prerequisite: HORT 26001 and 26016 and 26018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HORT 36034  SPORTS TURF MANAGEMENT 3 Credit Hours
Identification of grass plant species; culture and morphology; turf ecology with practical information on turf establishment and cultural practices. Covers issues of design, renovation, and maintenance of sports grounds and facilities. Class requires 20 hours service learning component.
Prerequisite: HORT 26030; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
HORT 36046 LANDSCAPE DESIGN II  3 Credit Hours
Advanced landscape design looking at overall landscape planning, including site and planting design, site amenities, irrigation design and client needs. Special attention to communication formats such as color rendering and graphics, as well as to overall presentation. Some design modeling and graphic sketching are included.
Prerequisite: HORT 26012 or 26032 or 26046; and junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36092 INTERNSHIP IN HORTICULTURE (ELR)  1-4 Credit Hours
(Repeatable for credit) Internship experience in an advanced field of study within the horticulture/green industry, building on the student’s understanding of science-based fundamentals. Internship requires a minimum of 210 working hours with an approved public organization or private green industry firm, and 2 hours per week consultation on independent research as approved and supervised by the academic program director. Work includes supporting documentation and written reports as deemed appropriate given the subject studied.
Prerequisite: Special approval.
Schedule Type: Practicum or Internship
Contact Hours: 3-12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HORT 41096 INDIVIDUAL INVESTIGATION IN HORTICULTURE  1-3 Credit Hours
(Repeatable for credit)Research under the direction of a horticulture faculty/program director mentor. Investigation of specific horticulture topics that build upon previous concentration areas of study.
Prerequisite: junior or senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

HORT 46014 GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT  3 Credit Hours
Survey of plant production of container, bare-root, balled-in-burlap plant materials in a nursery setting. Exploration of physiological principles involved, including planting, maturity dates for harvest, shipping, garden center activities and wholesale and retail marketing of stock.
Prerequisite: BSCI 26002 and BMRT 11000; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 46092 PRACTICUM IN HORTICULTURE (ELR)  3 Credit Hours
(Repeatable for credit) An in-depth individual project, combining field experiences with original research within a green industry niche. Area of interest supports the student’s educational goals given their intended concentration of past class work.
Prerequisite: HORT 36092; and junior or senior standing.
Schedule Type: Practicum or Internship
Contact Hours: 16 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement