Horticulture-HORT (HORT)

Courses

HORT 100 Horticultural Science  Credits: 4 (3-2-0)
Course Description: Principles of plant science and related disciplines as the base and context for the introduction of horticultural practices.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory. Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: Yes.
Additional Information: None.

HORT 171 Environmental Issues in Agriculture (GT-SS3) Credits: 3 (2-0-1)
Also Offered As: SOCR 171.
Course Description: Historical development of agriculture, environmental consequences of modern food production and other cultural approaches to agriculture.
Prerequisite: None.
Registration Information: Must register for lecture and recitation. Credit not allowed for both HORT 171 and SOCR 171.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.
Additional Information: Global & Cultural Awareness 3E, Human Behavior, Culture, or Social Frameworks (GT-SS3).

HORT 221 Landscape Plants  Credits: 4 (2-4-0)
Course Description: Identification, landscape features, cultural requirements, and landscape use of coniferous and deciduous trees and shrubs, vines, and evergreens.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory. Required field trips. Sections may be offered: Online.
Terms Offered: Fall, Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: Yes.

HORT 231 Landscape Graphics Studio  Credits: 4 (2-4-0)
Course Description: Mechanical and freehand graphic techniques for landscape design. Use of pencil, ink, and colored markers. Plan, sectional, and perspective views.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory. Required field trips. Sections may be offered: Online.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

HORT 260 Plant Propagation  Credits: 4 (3-2-0)
Course Description: Theories, principles, and techniques of sexual and asexual propagation.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory. Sections may be offered: Online.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: Yes.

HORT 270 Fundamentals of Horticultural Therapy  Credits: 2 (2-0-0)
Course Description: Theory and practice of horticultural therapy in health care and human services; applications, settings, and professional career topics.
Prerequisite: None.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 277 Introduction to Enology  Credit: 1 (1-0-0)
Course Description: Methods/criteria to evaluate, compare, and describe aroma and flavor characteristics in sound commercial wines; identification of common wine defects.
Prerequisite: None.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 280 Urban Agriculture  Credits: 3 (2-0-1)
Course Description: Biological & Physical Sciences 3A.
Prerequisite: None.
Registration Information: None.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 290 Wine and Food Production  Credits: 3 (3-0-0)
Course Description: Principles of plant science and related disciplines as the base and context for the introduction of horticultural practices.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory. Required field trips. Sections may be offered: Online.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: Yes.

HORT 291 Horticulture-HORT (HORT)  Credits: 3 (2-0-0)
Course Description: Principles of plant science and related disciplines as the base and context for the introduction of horticultural practices.
Prerequisite: None.
Registration Information: None.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.
HORT 330  Computers for Landscape Design  Credits: 2 (1-2-0)
Course Description: Applications and techniques of computer software utilized in small-scale landscape design-build.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 331  Landscape Design  Credits: 2 (2-0-0)
Course Description: Fundamentals of landscape design theory and plant composition as presented in simple problems.
Prerequisite: None.
Registration Information: For non-design majors only.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

HORT 335  Landscape Structures  Credits: 4 (2-4-0)
Course Description: Design and construction methods for structures commonly used in residential landscaping. Preparation of construction documents.
Prerequisites: CON 131 and HORT 232.
Registration Information: Must register for lecture and laboratory. Required field trips.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 336  Landscape Grading and Drainage Studio  Credits: 4 (2-4-0)
Course Description: Basic design principles for grading, drainage, and earth forms for small-scale projects.
Prerequisites: (HORT 221 and HORT 322 and HORT 335) and (MATH 118).
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

HORT 337  Organic Greenhouse Production  Credit: 1 (1-0-0)
Course Description: Fundamentals of greenhouse production using organic production methods.
Prerequisite: HORT 310.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 344  Organic Greenhouse Production  Credit: 1 (1-0-0)
Course Description: Fundamentals of greenhouse production using organic production methods.
Prerequisite: HORT 310.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 345  Diagnosis and Treatment in Organic Fields  Credits: 2 (0-4-0)
Also Offered As: SOCR 345.
Course Description: Field experience in diagnosis of pest and nutrient problems on organic farms and development of treatment recommendations.
Prerequisites: (BSPM 302 or BSPM 308 or BSPM 361) and (HORT 100 or SOCR 100) and (SOCR 240).
Registration Information: Credit not allowed for both HORT 345 and SOCR 345. Required field trips.
Term Offered: Summer (even years).
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 330  Computers for Landscape Design  Credits: 2 (1-2-0)
Course Description: Applications and techniques of computer software utilized in small-scale landscape design-build.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 331  Landscape Design  Credits: 2 (2-0-0)
Course Description: Fundamentals of landscape design theory and plant composition as presented in simple problems.
Prerequisite: None.
Registration Information: For non-design majors only.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

HORT 335  Landscape Structures  Credits: 4 (2-4-0)
Course Description: Design and construction methods for structures commonly used in residential landscaping. Preparation of construction documents.
Prerequisites: CON 131 and HORT 232.
Registration Information: Must register for lecture and laboratory. Required field trips.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 336  Landscape Grading and Drainage Studio  Credits: 4 (2-4-0)
Course Description: Basic design principles for grading, drainage, and earth forms for small-scale projects.
Prerequisites: (HORT 221 and HORT 322 and HORT 335) and (MATH 118).
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

HORT 337  Organic Greenhouse Production  Credit: 1 (1-0-0)
Course Description: Fundamentals of greenhouse production using organic production methods.
Prerequisite: HORT 310.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 344  Organic Greenhouse Production  Credit: 1 (1-0-0)
Course Description: Fundamentals of greenhouse production using organic production methods.
Prerequisite: HORT 310.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: Yes.
HORT 382  Origins of Agriculture in the Andes of Peru  Credits: 3 (0-0-3)
Course Description: Study abroad experience focused on understanding the agricultural, biological, cultural, and geographical diversity of the Andes region of Peru.
Prerequisite: HORT 100 or BZ 120 or LIFE 103.
Term Offered: Summer.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 384 Supervised College Teaching  Credits: Var[1-5]
Course Description:
Prerequisite: None.
Registration Information: A maximum of 10 combined credits for all 384 and 484 courses are counted towards graduation requirements.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 401 Medicinal and Value-Added Uses of Plants  Credits: 3 (3-0-0)
Course Description: Chemical, biochemical and ethnobotanical perspective on the medicinal and value-added uses of plants.
Prerequisite: BZ 120 or HORT 100 or LIFE 103.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 412 Floriculture Crops  Credits: 4 (3-0-1)
Course Description: Commercial production and marketing of bedding plants, potted container crops, and cut flowers.
Prerequisite: None.
Registration Information: Must register for lecture and recitation. Required field trips. Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 421 Horticultural Therapy Techniques  Credits: 2 (2-0-0)
Course Description: Clinical skills in horticultural therapy; communication, safety, leadership, therapeutic relationships, adaptation of tools and activities.
Prerequisite: HORT 270.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 423 Horticultural Therapy Programming  Credits: 2 (2-0-0)
Course Description: Methods for individual treatment planning, intervention, documentation, and reporting within therapy, social, and vocational HT programs.
Prerequisite: HORT 421.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 424 Topics in Organic Agriculture  Credits: 3 (3-0-0)
Also Offered As: SOCR 424.
Course Description: Examination of issues specific to organic food production systems and marketing.
Prerequisites: (AREC 202 or ECON 202) and (SOCR 240 and AREC 328) and (HORT 100 or SOCR 100) and (HORT 171 or SOCR 171).
Registration Information: Credit not allowed for both HORT 424 and SOCR 424.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 425 Horticultural Therapy Management  Credits: 3 (2-0-1)
Course Description: Horticultural therapy program and site design, proposals, funding, marketing, management, and evaluation.
Prerequisite: HORT 423.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 431 Planting Design Studio  Credits: 4 (2-4-0)
Course Description: Functional and aesthetic values of plant materials; their creative use in landscape design.
Prerequisites: HORT 487 and HORT 431.
Registration Information: Must register for lecture and laboratory. Required field trips.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: Yes.

HORT 432 Intensive Landscape Design Studio  Credits: 5 (2-6-0)
Course Description: Site planning and design for landscape projects of a limited scale. Problems of increasing complexity. Emphasis on real sites and clients.
Prerequisites: HORT 487 and HORT 431.
Registration Information: Must register for lecture and laboratory. Required field trips.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 441 Turfgrass Science  Credits: 3 (3-0-0)
Course Description: Examination of turfgrass management practices from a scientific perspective; discussion of advanced turfgrass management technologies.
Prerequisite: BZ 120 or HORT 100 or SOCR 240.
Registration Information: Required field trips.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 450A Horticulture Food Crops: Cool Season Vegetable Production  Credit: 1 (1-0-0)
Course Description:
Prerequisite: BZ 120 or HORT 100 or LIFE 103 or SOCR 100.
Registration Information: Required field trips.
Term Offered: Fall (even years).
Grade Mode: Traditional.
Special Course Fee: Yes.
HORT 450B  Horticulture Food Crops: Warm Season Vegetable Production  Credit: 1 (1-0-0)
Course Description:
Prerequisite: BZ 120 or HORT 100 or LIFE 103 or SOCR 100.
Registration Information: Required field trips.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 450C  Horticulture Food Crops: Small Fruit Production  Credit: 1 (1-0-0)
Course Description:
Prerequisite: BZ 120 or HORT 100 or LIFE 103 or SOCR 100.
Registration Information: Required field trips.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 450D  Horticulture Food Crops: Tree Fruit Production  Credit: 1 (1-0-0)
Course Description:
Prerequisite: BZ 120 or HORT 100 or LIFE 103 or SOCR 100.
Registration Information: Required field trips.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: Yes.

HORT 452  Viticulture-Grape Production  Credit: 1 (1-0-0)
Course Description: Grape production in temperate zone climates.
Prerequisite: BZ 120 or HORT 100 or LIFE 103 or SOCR 100.
Registration Information: Sections may be offered: Online.
Term Offered: Fall (even years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 454  Horticulture Crop Production and Management  Credits: 2 (2-0-0)
Course Description: Production and management of horticulture crops.
Prerequisite: HORT 100.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 460  Plant Breeding  Credits: 3 (2-0-1)
Also Offered As: SOCR 460.
Course Description: Theory and practice of plant breeding using principles of genetics and related sciences.
Prerequisite: BZ 350, may be taken concurrently or LIFE 201A, may be taken concurrently or SOCR 330, may be taken concurrently.
Registration Information: Must register for lecture and recitation. Credit not allowed for both HORT 460 and SOCR 460.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 461  Plant Breeding Laboratory  Credit: 1 (0-2-0)
Also Offered As: SOCR 461.
Course Description: Techniques and procedures used in public and commercial plant breeding programs.
Prerequisite: HORT 460, may be taken concurrently or SOCR 460, may be taken concurrently.
Registration Information: Credit not allowed for both HORT 461 and SOCR 461.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 462  Viticulture Practices in Grape Production  Credits: 3 (3-0-0)
Course Description: Biology of grape vines and cultural practices including planning, training, pest control, pruning, and harvesting; special emphasis on Colorado.
Prerequisite: None.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 464A  Arboriculture  Credits: 3 (2-2-0)
Also Offered As: HORT 464B.
Course Description: Practices used by arborists and landscape managers to plant, appraise and maintain landscape trees.
Prerequisites: HORT 100 and SOCR 240.
Registration Information: Credit not allowed for both HORT 464A and HORT 464B. Required field trips. Sections may be offered: Online.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

HORT 464B  Arboriculture  Credits: 3 (2-2-0)
Also Offered As: HORT 464A.
Course Description: Practices used by arborists and landscape managers to plant, appraise and maintain landscape trees.
Prerequisites: HORT 100 and SOCR 240.
Registration Information: Credit not allowed for both HORT 464A and HORT 464B. Required field trips. Sections may be offered: Online.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

HORT 465  Landscape Estimating  Credits: 3 (2-2-0)
Course Description: Landscape construction estimating and bidding, contract documentation and other business practices relevant to landscape design-build and contracting.
Prerequisites: (MATH 117) and (MATH 118) and (MATH 124 or MATH 125 or MATH 141 or MATH 155) and (HORT 221).
Registration Information: Must register for lecture and laboratory.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: Yes.

HORT 466  Urban and Community Forestry  Credits: 3 (3-0-0)
Also Offered As: F 466.
Course Description: Policies and management of publicly and privately owned community forests in urbanized areas.
Prerequisite: F 310 or RS 310 or HORT 221.
Registration Information: Credit not allowed for both HORT 466 and F 466.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.
HORT 476  Environmental Plant Stress Physiology  Credits: 3 (3-0-0)
Course Description: Plant growth, development and physiology, major sources of stress in plants, global issues in environment and plant stress.
Prerequisite: BZ 440.
Registration Information: Credit not allowed for both HORT 476 and HORT 576. Sections may be offered: Online.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 477  Enology-History and Winemaking  Credits: 3 (3-0-0)
Course Description: History and development of the wine industry; mechanics of various processes and factors affecting wine quality and consumer acceptance.
Prerequisites: CHEM 107, may be taken concurrently and CHEM 108, may be taken concurrently or CHEM 111, may be taken concurrently and CHEM 112, may be taken concurrently.
Term Offered: Fall (even years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 479  Professional Landscape Practices  Credits: 2 (2-0-0)
Course Description: Business skills involved in a successful career in the green industry.
Prerequisites: HORT 100 and HORT 465.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 486A  Practicum: Floriculture  Credits: 2 (0-4-0)
Course Description: Directed experience in applications of floriculture technique. Fall: pest, energy, and production. Spring: production and experimentation.
Prerequisite: HORT 310.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 486B  Practicum: General  Credits: Var[1-6]
Course Description: Directed experiences in applications of horticulture techniques and procedures.
Prerequisite: None.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 487  Internship  Credits: Var[1-18]
Course Description: None.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 495  Independent Study  Credits: Var[1-18]
Course Description: None.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 496  Group Study  Credits: Var[1-18]
Course Description: None.
Term Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 511  Green Roof Culture  Credits: 2 (2-0-0)
Course Description: Understand the relevance of green roofs in North America, especially the process, from concept to project completion and maintenance.
Prerequisite: HORT 100 to 199 - at least 3 credits.
Registration Information: Sections may be offered: Online.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 571  Soil-Plant-Water Relations/Water Stress  Credits: 3 (3-0-0)
Course Description: Movement of water in the soil-plant-atmosphere continuum. Instrumentation for measuring plant-water relations. Plant responses to drought and salinity.
Prerequisite: BZ 440.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 575  Plant Germplasm Conservation  Credits: 2 (2-0-0)
Course Description: Principles, concepts, and methodology for collection, conservation, and utilization of plant genetic resources.
Prerequisite: HORT 460 or SOCR 460.
Term Offered: Fall (even years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 588  Supervised Extension Practices  Credits: Var[1-18]
Course Description: Field experiences in extension practices in horticulture.
Prerequisite: None.
Term Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.
HORT 601  Topics in Root and Rhizosphere Biology  Credits: 2 (1-0-1)
Course Description: In-depth overview of the biology of roots and the rhizosphere processes related to roots.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: One course in plant physiology; one course in biochemistry. Must register for lecture and recitation.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

HORT 675  Plant Stress Physiology  Credits: 3 (3-0-0)
Course Description: Research concepts based on physiological, biochemical, and molecular mechanisms controlling environmental stresses in plants.
Prerequisite: BZ 440.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

HORT 698  Research  Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 699  Thesis  Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 784  Supervised College Teaching  Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 792  Seminar  Credit: 1 (0-0-1)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 795  Independent Study  Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

HORT 799  Dissertation  Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.