

# 2023-2024 TTC Catalog - Horticulture (HRT)

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## HRT 001 - HRT 001

**Lec:** 0 **Lab:** 0 **Credit:** \*

Indicates credit given for horticulture course work transferred from another college for which there is no equivalent course at TTC. \*Hours vary depending on external course.

**Division:** Engineering and Construction

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## HRT 101 - Introduction to Horticulture

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### Course Offered

Fall

This course covers the basic principles of horticulture as it relates to commercial production.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## HRT 102 - Landscape Design

**Lec:** 3.0 **Lab:** 3.0 **Credit:** 4.0

### Course Offered

Spring

This course is a study of landscape design principles and the application of landscape drafting techniques and plant selection to produce a finished landscape plan.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## HRT 106 - Ornamentals

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

**Course Offered**

Fall

This course is a survey of ornamentals that can be grown in local gardens. Emphasis is on form, texture, size, color, blooming season, culture, and botanical and common names. Plant materials include ground covers, vines, grasses, palms and some shrubs.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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**HRT 107 - Woody Ornamentals**

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

**Course Offered**

Spring

This course is a survey of deciduous and evergreen ornamentals that can be grown in local gardens. Emphasis is on form, texture, size, color, blooming season, culture, and botanical and common names.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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**HRT 108 - Annuals and Perennials**

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

**Course Offered**

Summer

This course is a survey of herbaceous plants, both annual and perennial, that can be grown in local gardens. Emphasis is on form, texture, size, blooming season, color, culture, and botanical and common names.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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**HRT 110 - Plant Form and Function**

**Lec:** 3.0 **Lab:** 3.0 **Credit:** 4.0

**Course Offered**

Fall

This course is a study of morphology, anatomy and physiology of higher plants. Emphasis is on plant structure, functions of plant parts, plant processes, plant growth and development, and plant inheritance.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 121 - Commercial Irrigation**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Summer

This course examines the use of irrigation in the landscape industry with emphasis on design, equipment suitability, water application procedures and construction. Design projects and job bidding also are included.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 125 - Soils**

**Lec:** 3.0 **Lab:** 3.0 **Credit:** 4.0

### **Course Offered**

Fall

This course is a study of soils and plant nutrition. Emphasis is on physical and chemical properties, water, organic matter and life of soils. Materials and methods for supplying nutrients to plants are included.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 130 - Greenhouse Production**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Spring

This course is a study of the basics of greenhouse production. Emphasis is on greenhouse soils, watering, fertilization, pest control, climate control and calculation of production costs.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 132 - Nursery Operations**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

This course is a study of nursery and greenhouse operations and management. Operational details of plant production, management principles, and chemical safety are covered.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 139 - Plant Propagation**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Summer

This course is a study of the fundamental principles and techniques involved in plant propagation.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 144 - Plant Pests**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Fall

This course is a study of horticulturally important insects, plant diseases and weeds. Emphasis is on identification, prevention and control.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 150 - Arboriculture I**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Summer

This course is a study of tree maintenance. Topics covered are tree physiology and anatomy, ropework, tree climbing techniques, pruning, fertilization, planting, and watering.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 153 - Landscape Construction**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Fall

This course covers the requirements and techniques of landscape construction. Emphasis is on construction of wood, concrete, and brick landscape structures; lighting; water features; and drainage.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 169 - Sustainability in Horticulture**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Spring

This course emphasizes basic issues affecting sustainability in horticultural environments. Topics include water retention, harvesting, pesticides, noise pollution and energy. Students will discuss new and current practices in sustainability, and will also identify sustainable pest control products.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 171 - Landscape Business Techniques**

**Lec:** 3.0 **Lab:** 0 **Credit:** 3.0

### **Course Offered**

Spring

This course explores ownership and operation of a landscape business. Topics include basic business procedures, finance, employee benefits and license requirements with emphasis on business start-up procedures.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 212 - Commercial Landscape Design**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Summer

This course is a study of landscaping principles and practices with emphasis on large commercial or public landscape developments. Students are introduced to landscape design using computers.

### **Prerequisite**

HRT 102

or

advisor approval

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 240 - Pesticides**

**Lec:** 3.0 **Lab:** 3.0 **Credit:** 4.0

### **Course Offered**

Spring

This course is a study of the application of herbicides, insecticides and fungicides. Emphasis is on current certification materials, calibration problems and application of pesticides over large areas.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 241 - Turf Management**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Fall

This course is a study of the identification, use, culture and maintenance of turf grasses. Emphasis is on installing and managing turf in residential, commercial and public areas.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 254 - Landscape Maintenance**

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

### **Course Offered**

Summer

This course is a study of the methods and procedures used in an overall approach to the maintenance of annuals, perennials, turf, shrubs and trees in a large-scale area.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **HRT 269 - Edible Landscaping**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Spring

This course is a study of varied production techniques for fruits, vegetables and herbs, including organic, hydroponic, commercial and residential. Students will develop business strategies to market and sell products.

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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