

# Horticulture (HRT)

## (Biology Department)

### **HRT 101—General Horticulture**

3 cr. (Fall)

The course covers essential information required for a basic understanding of horticulture. Subjects range from those necessary to describe plants (morphology and anatomy), understand elementary soil science, metabolism, flowers, fruits, reproductive methodologies, growth substances, photoperiods, plant nutrition, weed management, pest management, plant propagation, organic farming and gardening, sustainable landscapes, urban forestry, applied ecology and related horticultural subjects. The course provides practical experiences from lecture, lab, and field trips. The course provides experience in: observation, hypothesis development, data collection, experimentation, evaluation of evidence, and mathematical modeling/data analysis. This course is designed for students with little or no academic background in horticultural sciences. (G2A)

### **HRT 150—Horticultural Cannabis**

3 cr. (Spring)

The course covers essential information required for a basic understanding of the horticulture of *Cannabis sativa*. Subjects range from those necessary to describe plants (morphology and anatomy), understand elementary soil science, metabolism, flowers, fruits, reproductive methodologies, growth substances, plant nutrition, pest management, plant propagation, organic farming, and related horticultural subjects. The course discusses the history and classification of Cannabis and its horticulture, focusing on primary production and processing technologies, chemistry (e.g., THC, CBD, fatty acids, fiber content, adulteration), legal and regulatory issues, and agricultural commercialization of Cannabis crops. This course will provide students with a foundation of the scientific and technical background to understand how cannabis is grown and made into consumer products. (G2A)

Prerequisite: HRT 101 with a grade of C or Better

### **HRT 220—Horticulture Internship**

1 lect., 3 cr. (Fall/Spring)

An internship is a 90 hour on-site, academically related learning experience in an industry setting aligned to a student's personal career interests and academic course of study. This is a hybrid course. The student meets with the instructor in a seminar class setting to review reports and discuss class concepts. The student also meets weekly in an online setting to post to their job experience folder and interact with other student's job experiences. A research paper and internship portfolio must also be submitted.

Prerequisite: C or better in HRT101 and HRT150