

|               |  |     |        |         |            |                             |            |     |
|---------------|--|-----|--------|---------|------------|-----------------------------|------------|-----|
| 科目ナンバリング      | U-LAS14 20053 LE68   |     |        |         |            |                             |            |     |
| 授業科目名<br><英訳> | Principles of Horticulture-E2<br>Principles of Horticulture-E2 |     |        |         | 担当者所属職名・氏名 | 農学研究科 准教授 Garry John PILLER |            |     |
| 群             | 自然科学科目群  |     | 分野(分類) | 生物学(各論) |            | 使用言語                        | 英語         |     |
| 旧群            | B群   | 単位数 | 2単位    | 週コマ数    | 1コマ        | 授業形態                        | 講義（対面授業科目） |     |
| 開講年度・開講期      | 2024・後期  |     | 曜時限    | 水3      | 配当学年       | 主として1・2回生                   | 対象学生       | 理系向 |

### 【授業の概要・目的】

This course is a broad introduction to the science and technology underlying the use and production of horticultural crops (fruits, vegetables, flowers, and landscape plants). It includes the structure; growth, development and manipulation of horticultural plants; environmental influences; the basic principles of propagation, outdoor and greenhouse production; and pest control.

### 【到達目標】

Upon successful completion of this course students will:

- Be able to use basic horticultural vocabulary to describe and define horticultural management activities.
- Demonstrate a working knowledge of growth and development patterns of horticultural crops, and responses to environmental variables.
- Be able to access and understand basic research on horticultural crops.

### 【授業計画と内容】

#### Course Schedule

1. Introduction/ History
2. Plant Structure & Genotype
3. Flowers & Fruits
4. Propagation
5. Light
6. Temperature
7. Water
8. Soils & Soil Management
9. Mineral Nutrition
10. Plant Hormones
11. Directing Plant Growth
12. Pest & Disease Management
13. Greenhouse Production
14. Post Harvest Handling
15. End Exam
16. Feedback

### 【履修要件】

特になし

## **Principles of Horticulture-E2(2)**

### **[成績評価の方法・観点]**

Grading: Listening quizzes (20%), weekly writing exercises based on assigned pre-class reading materials (30%), in-class presentation (20%), and final exam (30%).

### **[教科書]**

使用しない

### **[参考書等]**

(参考書)

Handouts and supplemental readings will be distributed electronically and/or as a hard copy in class.

### **[授業外学修（予習・復習）等]**

Students should read or listen to the required pre-class materials and submit any required assignment before the class, and come to class ready to participate in class activities. Typically, this will entail listening to a short video or podcast (10 min. or less), as well as reading a 2 or 3 page handout and be prepared to write answers to 1 or 2 questions about the reading material in the following class (15 to 20 minutes provided in class).

### **[その他（オフィスアワー等）]**

Open door policy during office hours, and anytime by email.