

科目ナンバリング		U-LAS14 20053 LE68									
授業科目名 <英訳>		Principles of Horticulture-E2 Principles of Horticulture-E2				担当者所属 職名・氏名		農学研究科 准教授 HSIANG Tzu-Fan			
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	2025・後期		曜時限	水3		配当学年	主として1・2年生		対象学生	理系向	
【授業の概要・目的】											
<p>This course introduces the science and technology of horticultural crop production, including fruits, vegetables, flowers, and landscape plants. Key topics include plant growth and development, environmental influences, propagation methods, greenhouse and field production, and pest management.</p> <p>Emphasizing modern horticultural practices, the course explores plant biotechnology, controlled environment agriculture, and sustainable management strategies.</p>											
【到達目標】											
<p>Upon successful completion of this course, students will:</p> <ol style="list-style-type: none"> <li>1. Use fundamental horticultural terminology to describe and discuss crop production and management.</li> <li>2. Understand key growth and development processes in horticultural crops and their responses to environmental factors.</li> <li>3. Interpret and apply basic horticultural research to practical crop management and sustainable production.</li> </ol>											
【授業計画と内容】											
<p>Course Schedule</p> <ol style="list-style-type: none"> <li>1. Introduction/ History</li> <li>2. Plant Structure &amp; Genotype</li> <li>3. Flowers &amp; Fruits</li> <li>4. Propagation</li> <li>5. Light</li> <li>6. Temperature</li> <li>7. Water</li> <li>8. Soils &amp; Soil Management</li> <li>9. Mineral Nutrition</li> <li>10. Plant Hormones</li> <li>11. Directing Plant Growth</li> <li>12. Pest &amp; Disease Management</li> <li>13. Greenhouse Production</li> <li>14. Post Harvest Handling</li> <li>End Exam</li> <li>15. Feedback</li> </ol>											
【履修要件】											
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## 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）

Supplemental materials, including electronic handouts and multimedia resources, will be shared via the course platform.

### 【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.