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	2026・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 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.
Emphasizing modern horticultural practices, the course explores plant biotechnology, controlled environment agriculture, and sustainable management strategies.

[到達目標]

Upon successful completion of this course, students will:
1. Use fundamental horticultural terminology to describe and discuss crop production and management.
2. Understand key growth and development processes in horticultural crops and their responses to environmental factors.
3. Interpret and apply basic horticultural research to practical crop management and sustainable production.

[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

≪End Exam≫

[履修要件]

特になし

Principles of Horticulture-E2(2)へ続く↓↓↓

Principles of Horticulture-E2(2)

[成績評価の方法・観点]

Grading: Participation (20%), weekly writing exercises based on the content of each week (30%), in-class presentation (20%), and final exam (30%).

[教科書]

使用しない

[参考書等]

（参考書）

All lecture slides and supplementary materials will be provided in class at the time of each session.

[授業外学修（予習・復習）等]

Students are expected to come prepared and actively participate in class activities. Each session typically includes 15-20 minutes of in-class practice, during which students write short answers to one or two questions related to the lecture content.

[その他（オフィスアワー等）]

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

[主要授業科目（学部・学科名）]