

科目ナンバリング									
授業科目名 <英訳>		Basic Plant Science-E2 Basic Plant Science-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・前期		曜時限	月2		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>The purpose of this course is to provide a fundamental understanding of plant biology with potential applications to the fields of agriculture, horticulture, botany, food, ecology and conservation. In this course basic knowledge of flowering plant structure, function, reproduction, physiology, and genetics will be covered.</p>									
【到達目標】									
<p>Upon successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> <li>* Identify major plant parts and function</li> <li>* Explain the fundamentals of plant physiology and reproduction</li> <li>* Collect, analyze and interpret data related to plant growth and development</li> <li>* Think critically about plant science and research</li> </ul>									
【授業計画と内容】									
<p>Course Schedule</p> <ol style="list-style-type: none"> <li>1. Plants &amp; People</li> <li>2. Cells, Tissues, &amp; Meristems</li> <li>3. Stems</li> <li>4. Leaves &amp; Roots</li> <li>5. Cell Function</li> <li>6. Resource Acquisition &amp; Transport Systems</li> <li>7. Respiration</li> <li>8. Photosynthesis/ Mid Term exam</li> <li>9. Life Cycles</li> <li>10. Flowers &amp; Sexual Reproduction</li> <li>11. Seeds &amp; Fruits</li> <li>12. Control of Growth &amp; Development</li> <li>13. Genetics &amp; Evolution</li> <li>14. Biotechnology</li> <li>15. End of Term Exam</li> <li>16. Feedback</li> </ol>									
【履修要件】									
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## Basic Plant Science-E2(2)

### 【成績評価の方法・観点】

Grading: Class attendance, active participation & listening quizzes (20%), presentation (20%), weekly quizzes based on assigned pre-class reading materials (30%), and an end of term 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.