University of Hawaii Maui College AG 200 - Principles of Horticulture



Course Alpha. Please click on the? to the right for help.

AG

2. Course Number. Please click on the? to the right for help.

200

3. Course Title/Catalog Title. Please click on the ? to the right for help.

Principles of Horticulture

4. Number of Credits. Please click on the ? to the right for help.

4

- 5. Contact Hours/Type. Please click on the? to the right for help.
 - Hour other; explain (0)

3 hr lecture/2 hr lab

6. Course Description. Please click on the? to the right for help.

Explores botany and plant physiology. Discusses plant nutrient, moisture, and environmental requirements. Treats plant propagation. Studies culture and production techniques for selected ornamental crops.

7. Pre-Requisites. Please click on the ? to the right for help.

ENG 22 with grade C or better, or placement at ENG 100, or consent.

- 8. Co-requisites.
- 9. Recommended Preparation.
- 10. Is this a cross-listed course? Please click on the ? to the right for help.

NO

11. Reason for Proposal. Why is this course being proposed or modified? This question requires specific information as part of the explanation. Please click on the ? to the right for help.

Modify Existing Course

Adding the English pre-requisite because this course is usually taught as a WI so students need some writing skills prior to taking this class. Course description has also been modified.

12. Effective Semester and Year. For new or modified courses, the effective year is one year from the semester proposed. For example, if proposed in Spring 2012, the effective semester is Spring 2013. Please click on the ? to the right for help.

Spring 2015

13. Grading Method. What grading methods may be used for this course? Please click on the ? to the

LIGHT OF HEIPE

- Standard (Letter,Cr/NCr,Audit) (0)
- 4. Is this course repeatable for credit? How often can this course be counted toward a degree or certificate? Please click on the ? to the right for help.

NO

15. Course Student Learning Outcomes (SLOs). DO NOT ENTER TEXT IN THE TEXT BOX BELOW. Click on the yellow button "COURSE LEARNING OUTCOMES" and enter in that screen. Please click on the ? to the right for help.

Course SLO/Competency	information	Distinguish relevant and reliable information.	plant structures.	a crop or agricultural enterprise.	the appropriate propagation methods	~	
Describe and explain general plant structure and function in relation to plant growth and development.							
Demonstrate knowledge of horticultural principles in the cultivation of plants.					4		V
Examine commercial agricultural enterprises.	4	4			4	V	:

Course SLO/PSLO	business practices to manage projects or design a horticultural business enterprise.	solve problems, plan
Describe and explain general plant structure and function in relation to plant growth and development.		V
Demonstrate knowledge of horticultural principles in the cultivation of		

plants.		
Examine commercial agricultural enterprises.	$\overline{\mathbf{A}}$	

16. Course Competencies. DO NOT ENTER TEXT IN THE TEXT BOX BELOW. Click on the yellow button "COURSE COMPETENCIES/ISSUES/SKILLS" and enter text in that screen. Course competencies are smaller, simpler tasks that connect to and facilitate the SLOs.

Competency
Locate information
Distinguish relevant and reliable information.
Identify plant structures.
Describe a production system for a crop or agricultural enterprise.
Determine the appropriate propagation methods would be used for a given crop.
Recognize best management practices for a given crop.
Demonstrate professional work habits.

17. Recommended Course Content and Timeline. The course content facilitates the course competencies. Course content may be organized by weeks, units, topics or the like.

Content
Impact of Plants on the Environment 1-4 weeks
Origins of Agriculture. 1-4 weeks
The Cell. 1-4 weeks
Plant Tissues. 1-4 weeks
Plant Organs and Functions. 1-4 weeks
Cell Reproduction. 1-4 weeks
Photosynthesis. 1-4 weeks
Respiration. 1-4 weeks
Sexual Propagation. 1-4 weeks
Asexual Propagation. 1-4 weeks
Plant Nutrition. 1-4 weeks
Commercial Plant Production. 1-14 weeks

18. Program Learning Outcomes. DO NOT ENTER TEXT IN THE TEXT BOX BELOW. Click on the yellow button "PLOs" and enter text in that screen. Program Student Learning Outcomes (PLOs) supported by this course. If you are not a "program" use the Liberal Arts PLOs, view them by clicking on ? icon

to the right.

Program SLO

Use basic business practices to manage projects or design a horticultural business enterprise. 2

Recommend cultural practices, solve problems, plan projects, and/or cultivate horticultural crops in a sustainable manner based on sound biological and technological principles. 2

19. College-wide Academic Student Learning Outcomes (CASLOs). FIRST, fill out the CASLO grid located in the UHMC tab above. Click on the HELP icon for tips on determining support for the CASLOs and indicate your choices below by clicking on the box in front of each supported CASLO. NOTE: Our campus does not use the Preparatory Level, Level 1 and Level 2 designations in the chart below.

	Creativity - Able to express originality through a variety of forms.
€ í	Critical Thinking - Apply critical thinking skills to effectively address the challenges and solve problems.
	√ Level 1
€	Information Retrieval and Technology - Access, evaluate, and utilize information effectively, ethically, and responsibly.
	₩ Level 2
€	Oral Communication - Practice ethical and responsible oral communications appropriately to a variety of audiences and purposes.
	Level 1
	Quantitative Reasoning - Synthesize and articulate information using appropriate mathematical methods to solve problems of quantative reasoning accurately and appropriately.
4	Written Communication - Write effectively to convey ideas that meet the needs of specific audiences and purposes.
	€ Level 2

GenED SLO

Critical Thinking - Apply critical thinking skills to effectively address the challenges and solve problems.

Information Retrieval and Technology - Access, evaluate, and utilize information effectively, ethically, and responsibly.

Oral Communication - Practice ethical and responsible oral communications appropriately to a variety of audiences and purposes.

Written Communication - Write effectively to convey ideas that meet the needs of specific audiences and purposes.

20. Linking. CLICK ON CHAIN LINK ICON IN UPPER RIGHT HAND CORNER TO BEGIN LINKING. Please click on the ? to the right for help.

- 21. Method(s) of delivery appropriate for this course. Please click on the ? to the right for help.
 - Classroom/Lab (0)
 - Hybrid (0)
- 22. Text and Materials, Reference Materials, and Auxiliary Materials. Please click on the ? to the right for help.

Appropriate texts will be chosen at the time course is offered from current materials available in the field. Examples include "Botany for Gardeners", "Horticulture Principles and Practice", "Practical Horticulture". Other resources and references include electronic resources from College of Tropical Agriculture and Human Resources at UH Manoa.

23. Maximum enrollment. Please click on the ? to the right for help.

20

24. Particular room type requirement. Is this course restricted to particular room type? Please click on the ? to the right for help.

YES

Lab room, greenhouse, and outdoor lab spaces

25. Special scheduling considerations. Are there special scheduling considerations for this course? Please click on the ? to the right for help.

NO



Greenhouse or other spaces for growing horticultural plants

27. Does this course require special fees to be paid for by students? Please click on the ? to the right for help.

NO

28. Does this course change the number of required credit hours in a degree or certificate? Please click on the ? to the right for help.

none

29. Course designation(s) for the Liberal Arts A.A. degree and/or for the college's other associate degrees. Please click on the ? to the right for help.

Degree	Program	Category
Associate in Arts:	Liberal Arts	DB - Biological DY - Lab
AS:	ANY	NS - Natural Science
AAS:	AG and NR All	PR - Program Requirement
BAS:	BAS - All	NS - Natural Science
Developmenta	1/	

Remedial:

- 30. Course designation(s) for other colleges in the UH system.
- 31. Indicate the year and page # of UHMC catalog referred to. For new or modified courses, please indicate the catalog pages that need to be modified and provide a sheet outlining those changes.

2013-2014 - page # 93 Add the pre-requisite to the course description.

32. College-wide Academic Student Learner Outcomes (CASLOs). Please click on the HELP icon for more information.

Standard 1 - Written Communication Write effectively to convey ideas that meet the needs of specific audiences and	
purposes.	
Outcome 1.1 - Use writing to discover and articulate ideas.	3
Outcome 1.2 - Identify and analyze the audience and purpose for any intended communication.	3
Outcome 1.3 - Choose language, style, and organization appropriate to particular purposes and audiences.	3
Outcome 1.4 - Gather information and document sources appropriately.	3
Outcome 1.5 - Express a main idea as a thesis, hypothesis, or other appropriate statement.	1
Outcome 1.6 - Develop a main idea clearly and concisely with appropriate content.	2
Outcome 1.7 - Demonstrate a mastery of the conventions of writing, including grammar, spelling, and mechanics.	3
Outcome 1.8 - Demonstrate proficiency in revision and editing.	1
Outcome 1.9 - Develop a personal voice in written communication.	0
Standard 2 - Quantitative Reasoning Synthesize and articulate information using appropriate mathematical methods to solve problems of quantative reasoning accurately and appropriately.	
Outcome 2.1 - Apply numeric, graphic, and symbolic skills and other forms of quantitative reasoning accurately and appropriately.	1
Outcome 2.2 - Demonstrate mastery of mathematical concepts, skills, and applications, using technology when appropriate.	1
Outcome 2.3 - Communicate clearly and concisely the methods and results of quantitative problem solving.	1
Outcome 2.4 - Formulate and test hypotheses using numerical experimentation.	1
Outcome 2.5 - Define quantitative issues and problems, gather relevant information, analyze that information, and present results.	1
Outcome 2.6 - Assess the validity of statistical conclusions.	1

Access, evaluate, and utilize information effectively, ethically, and responsibly.	
Outcome 3.1 - Use print and electronic information technology ethically and responsibly.	2
Outcome 3.2 - Demonstrate knowledge of basic vocabulary, concepts, and operations of information retrieval and technology.	3
Outcome 3.3 - Recognize, identify, and define an information need.	1
Outcome 3.4 - Access and retrieve information through print and electronic media, evaluating the accuracy and authenticity of that information.	2
Outcome 3.5 - Create, manage, organize, and communicate information through electronic media.	3
Outcome 3.6 - Recognize changing technologies and make informed choices about their appropriateness and use.	2
Standard 4 - Oral Communication Practice ethical and responsible oral communications appropriately to a variety of audiences and purposes.	
Outcome 4.1 - Identify and analyze the audience and purpose of any intended communication.	2
Outcome 4.2 - Gather, evaluate, select, and organize information for the communication.	2
Outcome 4.3 - Use language, techniques, and strategies appropriate to the audience and occasion.	2
Outcome 4.4 - Speak clearly and confidently, using the voice, volume, tone, and articulation appropriate to the audience and occasion.	2
Outcome 4.5 - Summarize, analyze, and evaluate oral communications and ask coherent questions as needed.	1
Outcome 4.6 - Use competent oral expression to initiate and sustain discussions.	1
Standard 5 - Critical Thinking Apply critical thinking skills to effectively address the challenges and solve problems.	
Outcome 5.1 - Identify and state problems, issues, arguments, and questions contained in a body of information.	1
Outcome 5.2 - Identify and analyze assumptions and underlying points of view relating to an issue or problem.	2
Outcome 5.3 - Formulate research questions that require descriptive and explanatory analyses.	1
Outcome 5.4 - Recognize and understand multiple modes of inquiry, including investigative methods based on observation and analysis.	2
Outcome 5.5 - Evaluate a problem, distinguishing between relevant and irrelevant facts, opinions, assumptions, issues, values, and biases through the use of appropriate evidence.	3
Outcome 5.6 - Apply problem-solving techniques and skills, including the rules of logic and logical sequence.	2
Outcome 5.7 - Synthesize information from various sources, drawing appropriate	2

Outcome 5.8 - Communicate clearly and concisely the methods and results of logical reasoning.	1
Outcome 5.9 - Reflect upon and evaluate their thought processes, value system, and world views in comparison to those of others.	1
Standard 6 - Creativity Able to express originality through a variety of forms.	
Outcome 6.1: Generate responses to problems and challenges through intuition and non-linear thinking.	0
Outcome 6.2: Explore diverse approaches to solving a problem or addressing a challenge.	1
Outcome 6.3: Sustain engagement in activities without a preconceived purpose.	0
Outcome 6.4: Apply creative principles to discover and express new ideas.	0
Outcome 6.5: Demonstrate the ability to trust and follow one's instincts in the absence of external direction	0
Outcome 6.6: Build upon or adapt the ideas of others to create novel expressions or new solutions.	0

33. Additional Information

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