AG 120, PLANT SCIENCE
3 Credits Lecture (CRN 60423)
MW 1pm to 2:15pm

INSTRUCTOR: Bradley Fox
OFFICE: Hale Uluwehi
OFFICE HOURS (Monday 9am to 12 noon)
TELEPHONE: 236-9265
EMAIL: bradleyf@hawaii.edu
EFFECTIVE DATE: Spring 2019

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai‘i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide the Ko‘olau region of O‘ahu and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

The study of plant science, morphology, anatomy, physiology classification, growth regulators, and propagation. Students are required to write a 10 -to 15-page research report.

Activities Required at Scheduled Times Other Than Class Times
None

STUDENT LEARNING OUTCOMES
As a result of taking this course, students can expect to attain the following outcomes:

1. Describe and explain general plant structure and function in relation to plant growth and development.

2. Demonstrate knowledge of horticultural principles in the cultivation of plants.

3. Examine different agricultural systems and enterprises to become familiar with employment opportunities and the impact of horticulture on our lives.

4. Research and report on a horticultural plant.
COURSE CONTENT

Concepts or Topics

- Impact of Plants on the Environment and Society
- Origins of Agriculture
- Soil
- The Plant Cell
- Plant Tissues
- Plant Organs and Functions
- Photosynthesis
- Respiration
- Plant Nutrition
- Cell Reproduction
- Sexual Propagation
- Asexual Propagation
- Commercial Plant Production

Skills or Competencies

1. Locate information.
2. Distinguish relevant and reliable information.
3. Identify plant structures.
4. Describe a production system for a crop or agricultural enterprise.
5. Determine what appropriate propagation methods would be used for a given crop.
6. Recognize best management practices for a given crop.

COURSE TASKS

1. Use objective tests, essay questions or research/term papers to evaluate student’s ability to explain or identify plant structures or functions.
2. Use objective tests, essay questions or research/term papers to evaluate student’s knowledge of horticulture principles.
3. Use objective tests, essay questions, research/term papers, case studies, class presentations or applied projects evaluate student’s comprehension of commercial agricultural enterprises and their impact on the state’s economy.
4. A requirement of this course is to write a 10 – 15 page research report. The minimum length of the report will be 10 pages and the maximum length will be 15 pages. The number of pages counted for this report will only be prose, i.e. title page, reference page etc. will not count in the total. All reports will be typed with a maximum font size of 14, double-spaced with 1-inch margins. The report will include parenthetical documentation and a bibliography. You are required to use a minimum of six references, one reference must come from each of the following sources: a journal/periodical, Internet, textbook, and personal interview. The topic of this report must be addressed in this course and approved by the instructor. You will also give a 5- to 10-minute oral presentation of your report to the class.

ASSESSMENT TASKS AND GRADING

Examinations (2 at 25 % each): 50%
Projects (research paper 20%, oral presentation 10%): 30%
Participation: 10%
Quizzes: 10%

Your grade will be based on your attendance, participation and performance in completing the above tasks. Corresponding letter grades are as follows:

A = 100 – 90 pts
B= 89 – 80 pts
C= 79 – 70 pts

Windward Community College is an equal opportunity, affirmative action institution.
D= 69 – 60 pts  
F = 59 and below.  
Please refer to the WCC College Catalog for audit, withdrawal, and incomplete options.

**LEARNING RESOURCES**


**ADDITIONAL INFORMATION**

- Students are expected to participate in all laboratory activities and complete all course assignments on time.
- Students unable to be present on the day of the exam are required to notify the instructor at least one day prior to the exam day. It is the responsibility of the student to make up any exams and/or classes missed.
- Students are expected to be prepared in advance when they arrive to class.
- Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time in class. It is the student's responsibility to be informed of these changes.
- It is also the student's responsibility to be informed about deadlines critical to making registration changes (e.g., last day of erase period and last day for making an official withdrawal).
- If the instructor’s office hours do not work with your schedule, please e-mail or call to set up an appointment.
- The schedule and activities in this course are subject to change.
- MySuccess: Students may be referred for extra help or advising through MySuccess. Students can also explore resources at MySuccess.Hawaii.edu and windward.hawaii.edu/MySuccess

**DISABILITIES ACCOMMODATIONS**

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Ākoakoa 213 for more information.

**TITLE IX**

*Title IX prohibits discrimination on the basis of sex in education programs and activities that receive federal financial assistance.* Specifically, *Title IX prohibits sex discrimination; sexual harassment and gender-based harassment, including harassment based on actual or perceived sex, gender, sexual orientation, gender identity, or gender expression; sexual assault; sexual exploitation; domestic violence; dating violence; and stalking.* For more information regarding your rights under Title IX, please visit: [https://windward.hawaii.edu/Title_IX/](https://windward.hawaii.edu/Title_IX/).

Windward Community College is committed to the pursuit of equal education. If you or someone you know has experienced sex discrimination or gender-based violence, WCC has resources to support you. To speak with someone confidentially, contact the Mental Health & Wellness Office at 808-235-7393 or Kaahu Alo, Designated Confidential Advocate for Students, at 808-
235-7354 or kaahualo@hawaii.edu. To make a formal report, contact the Title IX Coordinator, Karla K. Silva-Park, at 808-235-7468 or karlas@hawaii.edu.

ACADEMIC INTEGRITY
Work submitted by a student must be the student’s own work. The work of others should be explicitly marked, such as through use of quotes or summarizing with reference to the original author.

Students can upload papers to http://www.TurnItIn.com to have papers checked for authenticity, highlighting where the paper potentially fails to appropriately reference sources.

In this class, students who commit academic dishonesty, cheating or plagiarism will have the following consequence(s):

    Students will receive a failing grade for plagiarized assignments.

All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

ALTERNATE CONTACT INFORMATION
If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

Location: Alakai 121
Phone: 808-235-7422
Email: wccaa@hawaii.edu