

## **BOT 101 General Botany Lab**

1 Credit (CRN 60341)

W 10:00 am – 12:45 am, Hale Imiloa 101

<b>INSTRUCTOR:</b>	Dr. Hongwei Li
<b>OFFICE:</b>	Hale Imiloa 107
<b>OFFICE HOURS:</b>	Wednesday 1:00-2:00 pm, walk-in or by appointment
<b>TELEPHONE:</b>	(808) 236-9104
<b>EMAIL:</b>	hli@hawaii.edu
<b>EFFECTIVE DATE:</b>	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**

Lab observations and experiments illustrating basic principles of plant biology. Pre-Requisites: credit for or registration in BOT 101.

#### ***Course Satisfies:***

- DB/DY for AA in Liberal Arts
- Required course for Certificate of Achievement in Agripharmatech
- Elective for AS in Natural Sciences.

#### **Activities Required at Scheduled Times Other Than Class Times**

Self-study, assignments, and field trip.

### **STUDENT LEARNING OUTCOMES**

The student learning outcomes for the course:

- Perform lab experiments in plant morphology, anatomy, physiology, cytology, taxonomy and genetics.
- Perform plant tissue culture, discuss traditional & in vitro plant propagation.
- Operate dissecting and compound microscopes.

### **COURSE TASKS, ASSESSMENTS AND GRADING**

#### **Course Tasks:**

- Activities in lab: lectures, video and demonstration.
- Reading assignments: assigned handouts prior to each lab.
- Review lab materials, complete quizzes and assignments.

## Assessments

- One midterm exam
  - Make-up exam: will be permitted only by the instructor upon consideration of the evidence justifying the absence presented by the student.
- Final Exam: is partially accumulative.
- Quizzes/assignments
  - There are 10 quizzes/assignments will be given, and the time and content will be announced in class.
- Lab participation
  - Based on lab attendance and lab worksheets submitted by students.
- Lab Report
  - Write a lab report on a selected topic.
  - The content of a lab report includes Title, Introduction, Materials and Methods, Results and Discussions.

## Grading

Tasks	Possible Points
Quizzes / Assignments (10)	200
Midterm Exam	100
Final Exam	100
Lab participation	50
Lab Report	50
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Total possible points	500

- Grading is based on the percentage of total points earned. Final Grades will be assigned as follows:
 

A	90 – 100%	B	80 - 89%	F	0 - 59%
C	70 - 79%	D	60 - 69%		

I (incomplete) grade is given at the instructor’s option when a student has failed to complete a small part of a course because of circumstances beyond his or her control. The student is expected to complete the course by the designated deadline in the succeeding semester. If this is not done, the I grade will revert to the contingency grade identified by the instructor.

## LEARNING RESOURCES

Lab manuals and reading materials:

- <https://laulima.hawaii.edu/>

## 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](mailto: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](mailto: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](mailto:karlas@hawaii.edu).

## 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](mailto:wccaa@hawaii.edu)

## CLASS SCHEDULE

Date	Topic
01/09	Introduction and Microscopy
01/16	Chemical Composition of Cells / pH
01/23	Plant Cell Structure, Tissues, and Multicellular Body
01/30	Plant Organs: Roots and Stems
02/06	Plant Organs: Leaves and Flowers
02/13	Plant Organs: Fruits, & Seeds
02/20	Photosynthesis
02/27	Plant Tissue Culture
<b>03/06</b>	<b>Midterm Exam</b>
03/13	Principles of Genetic Inheritance
<i>03/20</i>	<i>Break</i>
03/27	Evolution of Hawaiian Plants
04/03	Viruses and Bacteria
04/10	Algae & Fungi
04/17	Nonvascular Plants: Bryophytes
04/24	Seedless Vascular Plants: Ferns
05/01	Seed Vascular Plants: Gymnosperms & Flowering Plants
<b>05/08</b>	<b>Final Exam 10:45 am - 12:45 pm</b>

(Please note that this schedule is subject to change)