

BOT 101 General Botany

3 Credits (CRN 60340)

MW 8:30 am – 9:45 am, Hale Imiloa 101

INSTRUCTOR:	Dr. Hongwei Li
OFFICE:	Hale Imiloa 107
OFFICE HOURS:	Monday 10:00-11:00 am, walk-in or by appointment
TELEPHONE:	(808) 236-9104
EMAIL:	hli@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

Introduction to plant structure, function, reproduction, and evolution; plants in relation to the environment and human activities. Lecture course. Co-Requisites: Registration in BOT 101L

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:

- Discuss basic concepts in plant morphology, anatomy, physiology, cytology, taxonomy and genetics.
- Discuss life cycles of division in Protista, Fungi, Bryophyta, Pteridophyta, Gymnosperms, and Angiosperms.
- Discuss interrelationship between plants and animals, and socio-economic importance of plants on humans.

COURSE TASKS, ASSESSMENTS AND GRADING

Course Tasks:

- Activities in classroom: lectures, video and demonstration.
- Complete quizzes/homework assignments and review study guides

- Reading assignments: assigned handouts prior to lectures, and literature research for preparation of research presentation.

Assessments

- There are two midterm exams, which are partially accumulative.
 - 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.
- Presentation on a course-based research topic:
 - Conduct literature research on a given topic and present in class.

Grading

Tasks	Possible Points
Quizzes / Assignments (10)	200
Midterm Exam (2)	200
Final Exam	100
Topic Presentation	50

Total possible points	550

- 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

Required Textbook

- Introductory Botany Plants, People, and the Environment. L. Berg, 2008, 2nd edition. (ISBN-13: 978-0495384786 and ISBN-10: 049538478X)

Lecture 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, 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/.

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.

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

CLASS SCHEDULE

Date	Chapter	Topic
01/07	1/2	Introduction /The Chemical Composition of Cells
01/09	2	The Chemical Composition of Cells
01/14	2	The Chemical Composition of Cells
01/16	3	Plant Cell Structure
01/21		<i>Holiday</i>
01/23	5	Plant Tissues and the Multicellular Plant Body
01/28	6	Plant Organs: Roots
01/30	7	Plant Organs: Stems
02/04	8/10	Plant Organs: Leaves /Transport of Water & Mineral Nutrient
02/06	9	Flowers, Fruits, & Seeds
02/11	9	Flowers, Fruits, & Seeds
02/13		Exam 1
02/18		<i>Holiday</i>
02/20	4	Metabolism in Cells
02/25	4	Metabolism in Cells
02/27	11	Growth Responses and Regulation of Growth
03/04	12	Mitosis, Meiosis and Life Cycles
03/06	13	Patterns of Inheritance
03/11	14	Molecular Basis of Inheritance
03/13	15	Genetic Frontiers
03/18-20		<i>Break</i>
03/25	16	Continuity through Evolution
03/27	17	The Evolution of Populations and Species
04/01		Exam 1

04/03	18/19	Classification of Plants & Other Organisms/ Introduction to Viruses and Bacteria
04/08	20	Introduction to Kingdom Protista
04/10	21	Introduction to Kingdom Fungi
04/15	22	The Plant Kingdom: Bryophytes
04/17	23	The Plant Kingdom: Seedless Vascular Plants
04/22	24	The Plant Kingdom: Gymnosperms
04/24	25	The Plant Kingdom: Flowering Plants
04/29	26/27	Ecosystems/ Global Ecology and Human Impact
05/01		Topic Presentation
05/08		Final Exam 8:30 am - 10:30 am

(Please note that this schedule is subject to change)