Basic Course Information

Semester:	**Spring 2020**	Instructor Name:	**Dr. B. Singh**
Course Title & #:	**General Botany**	Email:	**Baldev.singh@imperial.edu**
CRN #:	**21735**	Webpage (optional):	
Classroom:	**2732**	Office #:	**To be announced in class**
Class Dates:	**Feb18-June12**	Office Hours:	**12:25-12:55 p.m**
Class Days:	**Monday**	Office Phone #:	**Offelia Duarte 760-3556155**
Class Times:	1:00-4:10 p.m	Emergency Contact:	
Units:	3		

Course Description

This introductory course covers the general principles of botany. The emphasis is on morphology, physiology development, identification, systematics, ecological functions and the human uses of plants. Field trip(s)/activities are included within the course. (CSU, UC)

Course Prerequisite(s) and/or Corequisite(s)

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to: 1. Identify an important issue in botany, conduct research via literature, interviews with experts and hands-on projects, and clearly communicate content learned about the project by writing a research paper. (ILO1) 2. Use systems thinking to explain how a selected topic in botany interconnects with global communities, ecosystems or human societies and cultures. (ILO5)

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to: 1. Identify an important issue in botany, conduct research via literature, interviews with experts and hands-on projects, and clearly communicate content learned about the project by writing a research paper. (ILO1) 2. Use systems thinking to explain how a selected topic in botany interconnects with global communities, ecosystems or human societies and cultures. (ILO5)

Course Objectives

Upon satisfactory completion of the course, students will be able to: 1. Identify plant structures and relate them to the functions of photosynthesis, transpiration, nutrient acquisition and hormone production. 2. Use a basic dichotomous key to identify common plants. 3. Describe the general taxonomic and evolutionary relationships within and among plant, photosynthetic protistan and fungal taxa. 4. Describe and contrast life cycles within and among plant, photosynthetic protistan and fungal taxa. 5. Describe how plants interact within and among biological populations and communities. 6. Describe how plants drive processes that occur within ecosystems including nutrient cycling, energy flow and maintenance of biodiversity. 7. Recognize common native plants and describe their economic, cultural and ecological functions. 8. Describe the agricultural, commercial, medicinal and cultural uses of plants

Textbooks & Other Resources or Links

Bidlack, James E. 2017. Stern's Introductory Plant Biology 14. New York, NY. McGraw-Hill ISBN: 978- 1259682742. • Pavlik, Bruce M. 2008. The California Deserts: An Ecological Rediscovery. University of California Press ISBN: 9780520251458

Course Requirements and Instructional Methods

This course consists of lectures, hands-on activities, a field trip, an essay and a group project. Exams: The course will include 2 cumulative exams and one cumulative lecture final exam. There are no "make-up" exams except for excused illnesses. In-class assignments: All lectures include in-class assignments worth 5 points each. While you will not be graded on attendance, you will be graded on these in-class activities. These activities provide you with low-stakes opportunities to assess your knowledge and study skills in the course.

Course Grading Based on Course Objectives

Exams	3X 100	300	Total = 600 points *
Assignments/Quizzes15	15X 10	150	* Tentative Weightage may change
Home Work	150 points	150	

Less than 59%=F, 60-69%=D, 70-79%=C, 80-89%=B, Above 90%=A

Attendance

A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.

- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

- **Electronic Devices**: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- **Food and Drink are prohibited in all classrooms**. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- **Disruptive Students**: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- **Children in the classroom**: Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed.

Online Netiquette

[Required Information for web-enhanced, hybrid and online courses: Describe your policies regarding netiquette. The below is suggested language and may be modified for your course.]

- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others' opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

Academic Honesty

[Required language.]

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

Additional Student Services

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

- CANVAS LMS. Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: Canvas Student Login. The Canvas Student Guides Site provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
- Learning Services.   There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your Campus Map for the Math Lab; Reading, Writing & Language Labs; and the Study Skills Center.
- Library Services.   There is more to our library than just books. You have access to tutors in the Study Skills Center, study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- **Student Health Center**. A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC Student Health Center at 760-355-6128 in Room 1536 for more information.
- **Mental Health Counseling Services**. Short-term individual, couples, family and group counseling services are available for currently enrolled students. Services are provided in a confidential, supportive, and culturally sensitive environment. Please contact the IVC Mental Health Counseling Services at 760-355-6310 or in the building 1536 for appointments or more information..

Veteran's Center

The mission of the IVC Military and Veteran Success Center is to provide a holistic approach to serving military/veteran students on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources. Their goal is to ensure a seamless transition from military to civilian life. The Center is located in Building 600 (Office 624), telephone 760-355-6141.

Extended Opportunity Program and Services (EOPS)

The Extended Opportunity Program and Services (EOPS) offers services such as priority registration, personal/academic counseling, tutoring, book vouchers, and community referrals to qualifying lowincome students. EOPS is composed of a group of professionals ready to assist you with the resolution of both academic and personal issues. Our staff is set up to understand the problems of our culturally

diverse population and strives to meet student needs that are as diverse as our student population. Also under the umbrella of EOPS our CARE (Cooperative Agency Resources for Education) Program for single parents is specifically designed to provide support services and assist with the resolution of issues that are particular to this population. Students that are single parents receiving TANF/Cash Aid assistance may qualify for our CARE program, for additional information on CARE please contact Lourdes Mercado, 760-355- 6448, lourdes.mercado@imperial.edu.

EOPS provides additional support and services that may identify with one of the following experiences:

- Current and former foster youth students that were in the foster care system at any point in their lives
- Students experiencing homelessness
- Formerly incarcerated students

 To apply for EOPS and for additional information on EOPS services, please contact Alexis Ayala, 760-3555713, alexis.ayala@imperial.edu.

Student Equity Program

- The Student Equity Program strives to improve Imperial Valley College's success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. Student Equity addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, Veterans, foster youth, homelessness, and formerly incarcerated students. The Student Equity Program provides direct supportive services to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students' access to education, degree and certificate completion, successful completion of developmental math and English courses, and the ability to transfer to a university. Contact: 760.355.5736 or 760.355.5733 Building 100.
- The Student Equity Program also houses IVC's Homeless Liaison, who provides direct services, campus, and community referrals to students experiencing homelessness as defined by the McKinney-Vento Act. Contact: 760.355.5736 Building 100.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC General Catalog.

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC Library Department provides numerous Information Literacy Tutorials to assist students in this endeavor.

Anticipated Class Schedule/Calendar		
Lect #	*Topic/Chapter*	*Date*
1.	Introduction What is Botany? -Seeds planting activity	*Feb/24*
2.	The Nature of Life -Cells-Tissues -Plant diversity activity	*Mar /2*
3.	Roots and Soil-Stems -Monocot/Dicot activity-Leaves -Stomata peel activity	*Mar/9*
4.	Flowers, Fruits and Seeds -Wild seed activity	*Mar/16*
5. **	Water in Plants-Plant Metabolism -Plant metabolism activity	*Mar/23*
6.	Meiosis and Alternation of Generations -Meiosis gummy worm activity	*Mar/30*
7.	Growth -Plant hormone activity-Genetics -Plant Breeding and Propagation Plant cutting activity	*April/6*
8.	Evolution -Evolution activity-Plant Names and Classification -Domain Bacteria, Domain Archaea, and Viruses -Leaf pressing activity	*April/20*
9. **	Kingdom Protista -Kingdom of Fungi -Microbial diversity activity-Introduction to the Plant Kingdom: Bryophytes - Ferns and Their Relatives	*April/27*
10.	Gymnosperms -Angiosperms-Seed plants activity	*May /4*
11.	Flowering Plants and Civilization -Ag planting activity-Agriculture origins	*May/11*
12.	Fruit and Genetically Modified Crops-Spice, Fiber, Psychoactive Plants and History	*May/18*
13.	Review for final Group PresentationsCumulative Lecture and Lab Finals	*June/1*
14 **	*FINAL Examination Week*	*June/8*
	Assignments are Due On Next meeting date. (No points for late Subm.)	
	All Quizzes/Assignment/Home work needs printed hard Copy)	
	***Tentative Exams will be announced in class.*NO MAKE-UP EXAMS**	

Tentative, subject to change without prior notice