

Basic Course Information

Semester:	Spring 2020	Instructor Name:	Dr. Andrew Chien
Course Title & #:	Biol 100-Prin of Biological Science	Email:	Andrew.chien@imperial.edu
CRN #:	20027	Webpage (optional):	
Classroom:	2713	Office #:	2761
Class Dates:	Feb 18-June 11, 2020	Office Hours:	M:530-630pm. T:730-8am,550-620pm on line.W:530-630pm.T7-8am.
Class Days:	TR	Office Phone #:	760-355-5755
Class Times:	1120am-230pm	Emergency Contact:	Ofelia Duarte, SME Secretary 760-355-6155
Units:	4		

Course Description

A comprehensive one semester general biology course for non-majors. Includes life from the molecular to the organismal level of both plants and animals and their interactions within the environment. Special emphasis is put on human biology within appropriate areas of study. Appropriate for general education as well as nursing, pre-professional, and higher level biology courses. Includes laboratory component (SSU) (UC credit limited, see a counselor).

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

Appropriate placement as defined by AB705; or MATH 098 or MATH 091 with a grade of C or better.

Student Learning Outcomes

Upon course completion, the successful student will have acquire new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Demonstrate and understanding of the steps of the scientific method (ILO2)

Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Identify the basic characteristics of all living things.
2. Name basic chemical aspects that pertain to life and the concepts of homeostasis.
3. Describe the subcellular components of the cell including their structures and function
4. Explain the light and dark reactions of photosynthesis.
5. Explain cellular respiration and its relation to the entire organism.

6. Demonstrate knowledge of the function of DNA and RNA.
7. Explain protein synthesis and the central dogma of cell biology.
8. Compare and contrast the fundamentals of asexual and sexual reproduction.
9. Define ecology and the overall impact of ecology to conditions in the environment.
10. Solve problems in general genetics and in human genetics and relate advances in genetics to social responsibility of geneticist.
11. Identify and relate the functions of the major systems of the human body, the interrelationship among body systems and the nature of disease.
12. Classify organisms in the kingdom of plants and animals, discussing their evolution and their relationships.

Textbooks & Other Resources or Links

- A. Either the Imperial Valley College Biology with Lab Manuel. 3rd edition.
- B. Or. The following two separate books.

Text book: Biology The Essentials, by Marielle Hoefnagels. McGraw Hill. ISBN 007701615

Lab Manuel: Principles of Biological Science Laboratory Manuel by Sylvia Mader. McGraw Hill. ISBN 0077701631

Course Requirements and Instructional Methods

This class includes both lectures and laboratory portions. In order to pass this class students must participate in both portions of the class, including regular attendance and performing experiments.

Course Grading Based on Course Objectives

1. Three hour examinations covering lectures. Most exams have objective questions plus short answers. Scantrons required. Hour exams are worth 100 points each.
2. 3 quizzes (25 points each covering what we did in labs.)
3. Six lab exercise reports to be turned in the following week. Total 60 points.
4. A lab practical covering the fetal pig dissection covering the identification of external and internal parts. Due to the length of time to set up the pigs, there will be no make up. Plan YOUR SCHEDULE AROUND THIS TEST. No make up !!!!!!!!!!!
5. A ten page text research paper is required (ten pages does not include title page or bibliography). Paper due on or before 5pm **June 4, 2020..**

I do not grade on any curve. Your total points determine the letter grade. Total available points 585. 90% and above is A. 80-89% a B. 70-79% a C. 60-69% a D. 59% and lower is F.

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.
- After a class has commenced students are required to stay in class until the class is over. No student is allowed to leave class without permission.

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

- **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

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

- **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)

ny 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 low-income 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, 760-355-5713, 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

Tentative, subject to change without prior notice

WK	DAY	DATE	LAB / LECTURE DESCRIPTION	EXPERIMENTS	20
1	T	2/18	Introduction to Life on Earth		
	R	2/19	Introduction to the Lab / OPEN	Lab 1, Lab 2-1	
2	T	2/25	Chap 1. Intro to Life on Earth		
	R	2/27	Lab 3. Chemical Composition of Cells.	3.1,2,3,4	
3	T	3/3	Chap 2. Chemistry of Life		
	R	3/5	Lab 2.Metric and Microscopy	Lab 2.3,4,5	

4	T	3/10	Chap. 2. continue		
	R	3/12	Cell Structure & Function (Lab 4)	Lab 4-Cell Structures & Functions 4.3-5	
5	T	3/16	Chap 30. Circulation		
	R	3/18	Chap. 30 Circulation		
6	T	3/24	Chap 32, Digestion and Nutrition		
	R	3/26	Lab. 6. Photosynthesis	Photosynthesis Lab 6.2	
7	T	3/31	Chap. 32. Digestion and Nutrition		
	R	4/2	Chap 35 Reproduction		
8	T	4/7	35. Reproduction		
	R	4/9	Chap 35-reproduction.		
9	T	4/21	Chap 26,27. Nervous Systems and Senses		
	R	4/23	Lab 27,29 Fetal Pig Dissection	Lab 27,29	Fetal pigs
WK	DAY	DATE	LAB / LECTURE DISCRPTION	EXPERIMENTS	MODELS / CD'S / SPE

10	T	4/28	Chap. 26,27. Nervous systems and senses		
	R	4/30	Fetal Pig Dissection	Lab 27,29	
11	T	5/5	Chap 10. Patterns of Inheritance		
	R	5/7	PIG TEST	PIG TEST	NO MAKE UP !!!!!!!!!!!!!!!!!!!!!!!
12	T	5/12	Chap 10. Patterns of Inheritance		
	R	5/14	Senses	Lab 30	
13	T	5/19	Chap 12,13, 14. Principles of Evolution		
	R	5/21	Human Genetics (Lab 10)		Blood typing kit
14	T	5/26	Chap 14-Evolution		
	R	5/28	Chap 15-How Organisms Evolve		
15	T	6/2	Review		
	R	6/4	OPEN Review		

16	T	6/9	Review		
	R	6/11	Final Exam		