Basic Course Information

Semester:	Fall 2017	Instructor Name:	Dr. Andrew Chien
Semester	Principles of Biological		
Course Title & #:		Email:	Andrew.chien@imperial.edu
		Webpage	
CRN #	10030	(optional):	
Classroom:	2713	Office #:	2761
			M:510-610pm.T:11:10-
			12:10pm. W: 510-
Class Dates:	8/14-12/8/2017	Office Hours:	610pm.R:11:10-12:10pm
Class Days:	MW	Office Phone #:	(760)355-5755
			(Ofelia
Class Times:	630-940pm	Emergency Contact:	Duarte,SME.(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. (CSU) (UC credit limited. See counselor)

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

MATH 090 or MATH 091 with a grade of "c" or better.

Student Learning Outcomes

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

- 1. Demonstrate an understanding of the steps of the scientific method. (IL02)
- 2. Communicate an understanding of the various patterns of inheritance of genetic traits.(IL01,IL02)
- 3. Explain how the processes of natural selection influence evolution. (ILO1,ILO2)
- 4. Perform lab activities properly, and correctly analyze lab data. (IL01,IL02)

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 concept of homeostasis
- 3. Describe the subcellular components of the cell including their structure and function.
- 4. Explain the light and dark reactions of photosynthesis.
- 5. Explain cellular respiration and its relations to the entire organism.

- 6. Demonstrate knowledge of the structure and function of DNA and RNA
- 7. Explain protein synthesis and site the central dogma of cell biology.
- 8. Compare and contrast the fundamentals of sexual and asexual 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 geneticists.
- 11. Identify and relate the functions of the major systems of the human body; the interrelationship among body systems and nature of disease.
- 12. Classify organisms in the kingdoms of plants and animals, discus their evolutions and their relationships.

Textbooks & Other Resources or Links

- Hoefnagels, M. (2015). Biology: The Essentials (2nd/e).New York,NY McGraw-Hill. ISBN:0078025250
- Mader, Stylvia S. (2015). Laboratory Manuel to accompany Biology 12th edition. Custom edition (12th/e). New York, NY McGraw-Hill.ISBN:9781308487557.

Course Requirements and Instructional Methods

. This class includes both lectures and laboratory portions. The student must participate in both portions of the class, including regular attendance and participate in the class discussions. All students must be hands on during lab work.

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

Course Grading Based on Course Objectives

- 1. Three hour examinations based on lectures. Usually after two chapters. Top 2 scores will count for 200 points..] NO MAKE UP EXAM.
- 2. Three quizzes covering lab work for 75 points. No MAKE UP QUIZZ.
- 3. Six lab home work (10 points each) to turn in the following week. Total of 60 points.
- 5. An extensive research paper (ten pages of text) of a biological subject (with my approval). 100 points. Due November 30. Late papers will not be accepted.
- 6. Comprehensive final exam. 100 points.

Total 585 points. 90% and above is A. 80%-89% is a B. 70-79% is a C. 60-69% ia a D. Below 60% is an 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 the class commences the student are not allowed to leave the class for the day without prior permission from me .If an emergency arises the student should approach me to get permission to leave. Unexcused walking out of the classroom will not be tolerated

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

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)

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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

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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, 760-355-5713, <u>alexis.ayala@imperial.edu</u>.

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

WK	DAY	DATE	LAB / LECTURE DESCRIPTION	EXPERIMENTS		Μ	ODELS /
1	м	8/14	Introduction to Life on Earth				
	W	8/17	Introduction to the Lab / OPEN				
2	М	8/21	Chap. 2. Atoms, Molecules & Life				
	W	8/23	Lab 3. Chemical Composition of Cells.	3.1,2			
3	M	0/20	Chan2 continue				
3		8/28	Chap2. continue				
	W	8/30	Lab 2.Metric and Microscopy	Lab 2.1,4,5			
4	М	9/4	Labor Day-no class				
	W	9/6	Cell Structure & Function (Lab 4)	4.3,4			
		0/11	Chan 27 Circulation				
5	М	9/11	Chap 27. Circulation				
	W	9/13	Photosynthesis (6)	6.2,	Elodea, lar	ips,	carbonic
6	М	9/18	Chap 27 continue				
	W	9/20	Lecture-Chap 25. Nutrition & Digestion	lecture			

M W	9/25 9/27	Chap 25-continue Chap 35. Reproduction	la sture				
W	9/27	Chap 35. Reproduction	la atuma				
			lecture				
M	10/2	35. Reproduction					
			Lab 37	Eatal pige			
vv	10/4		LaD 27	retai pigs			
М	10/9	Chap 35. Reproduction					
W	10/11	Fetal Pig / Frog Dissection (Lab 26)	Lab 26	Fetal pigs			
DAY	DATE	LAB / LECTURE DISCRIPTION	EXPERIMENTS		n	лф	DELS /
M	10/16	Chao. 33. Nervous System and The Senses					
W	10/18	Lab practical exam	LAB EXAM	NO MAKE	UP	!!!	
M	10/23	Chan 33 Nervous System & Senses					
W	10/26	Senses (Lab 30)	Lab 30				
М	10/30	Chap 12. Patterns of Inheritance					
W	11/1	Chap 12. continue	lecture				
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M	11/6	Chap 14. Principles of Evolution					
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W 12/6 Final Exam	

Tentative, subject to change without prior notice