

### Basic Course Information

Semester:	<b>Spring 2016</b>	Instructor Name:	<b>Dr. Andrew Chien</b>
Course Title & #:	<b>Biol 122. General Zoology II</b>	Email:	<b>Andrew.chien@imperial.edu</b>
CRN #:	<b>20903</b>	Webpage (optional):	
Classroom:	<b>2713</b>	Office #:	<b>2761</b>
Class Dates:	<b>2/16/16-6/10/16</b>	Office Hours:	<b>Mon-1-2pm; Tues-11:10am—12:10pm; Wed.1-2pm; Thursday 11;10am-12:10pm</b>
Class Days:	<b>Mon- Lecture, Wed- Lab</b>	Office Phone #:	<b>760-355-5755</b>
Class Times:	2pm-6:25pm	Emergency Contact:	<b>Ofelia Duarte,SME Secretary, 760-355-6155</b>
Units:	4		

### Course Description

Introduction to basic principles of animal biology with references to structure, function, classification, heredity and the environment of animals in general with special emphasis on the invertebrates. BIOL 122 may be taken before BIOL 120. (CSU, UC)

### 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. Display oral communication effectiveness by doing an oral presentation of a research paper. (ILO1)
2. Display the ability to show critical thinking by answering short essay type questions on exams. (ILO2)
3. Display ability to understand written and illustrated information on the subject matter. (ILO4)
4. Display an understanding of global impact on and by invertebrate animals. (ILO5)

### Course Objectives

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

1. Differentiate between the major characteristics of living and non-living things
2. Explain the structure and function of the components of the cell
3. Describe the molecular nature of living things, including the macromolecules associated with inheritance (nucleic acids)
4. Discuss the classification of organisms into 3 domains and 5 kingdoms and discuss phylogeny using cladistics

5. Demonstrate knowledge of tissues and organs which compose whole animals and their role in gland formation
6. Demonstrate knowledge of genetics including population genetics
7. Name the various invertebrate groups and recite the differentiating characteristics of each group
8. Demonstrate the structures (through dissections) which differentiate primitive from advanced organisms

### **Textbooks & Other Resources or Links**

Hickman, C.P. et al (2012). Integrated Principles of Zoology (15<sup>th</sup> e) McGraw-Hill. ISBN 0073040509  
Hickman, C.P. et al. Laboratory Manual in Integrated Principles of Zoology. McGraw-Hill. 01-01-2012

### **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. Instruction methods includes; lectures, demonstrations, discussions, lab activities, hands on dissections. Drawing. Audio visual.

Doing research for and writing a research paper discussing the invertebrates and the global impact on and by them.

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**

One midterm exam (100 points). One final exam (100 points). Lab work completed in a bound book like form at the end of the semester (June 3, 2015 deadline) (50 points). At least one field trip with field trip report (35 points). There may be practical exam –points to be determined. Research paper worth 100 points. Grades are determined strictly by the percentages as : 90% and above is an A. 80-89% a B. 70-79% a C. 60-69% a D. Below 60% is a 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.
- Once the class commences all students must stay until the end of the class. Nobody is allowed to leave for the day. You may get permission from me to leave early if arranged before class starts. For

emergency students may approach me during class time to get permission to leave. Bathroom breaks are the exception. Leaving early w/o permission counts as 2 absences. If it happens more than twice I may drop you the class.

- 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, no one who is not enrolled in the class may attend, including children.

### 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

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.

- **Blackboard Support Site.** The Blackboard Support Site provides a variety of support channels available to students 24 hours per day.
- **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 and El Centro Regional Center provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6310 in Room 2109 for more information.
- **Mental Health Counseling Services.** Short-term individual, couples, family, and group therapy are provided to currently enrolled students. Contact the IVC [Mental Health Counseling Services](#) at 760-355-6196 in Room 2109 for more information.

## 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

W K	DATE	LECTURE (MONDAY)	DATE	LABORATORY (WEDNESDAY)
1	02-16	Chap. 1 Biological Principles	02-18	Chap 1. Lecture
2	02-23	Chap 1. cont	02-25	Use of the Key
3	03-01	Chap 5. Genetics	03-03	Microscope
4	03-8	Chap 9. Architectural Pattern of an Animal	03-10	Chap 9 Lecture
5	03-15	Chap. 11. Unicellular -Protozoans	03-17	Protozoans- Slides, <b>live specimens of protozoans</b>
6	03-22	Chapter 12. Sponges SPRING BREAK March 28-Apr 2	03-24	Slides
7	04-05	Chap. 13. Radiate animals. Cnidarians	04-07	Slides
8	04-12	Chap. 14. Flatworms.	04-14	Live specimens- <b>Planarians</b> . Slides
9	04-19	Chap. 16. The Molluscs	04-21	Dissections-clams
10	04-26	Chap. Annelids	04-28	<b>cont</b>
11	05-03	Chap. 19. Arthropod	05-05	Chap. 19. Arthropods
12	05-10	Chap. 20. Crustaceans	05-12	Chap. 21. Hexapods
13	05-17	Chap. 20. Crustaceans	05-19	Chap. 22. Echinodermata. <b>Preserved starfish.</b>

<b>14</b>	05-24	Chap 6. Evolution	05-26	Chap 6. Evolution
<b>15</b>	05-31	Chap 6. Evolution	06-02	Review
<b>16</b>	06-07	<b>REVIEWS</b>	06-09	<b>FINAL EXAMS</b>