

Imperial Valley College  
Course Syllabus  
Spring 2014  
Dr. Andrew Chien

**Course Title** Principles of Biological Science

**Course Number** Biol 100

**CRN** 20215

**Lecture Hours** 3      **Lab Hours** 3

**Credit Hours** 4

**Class Days, Time, Room :** Lec T 0835-1145am Room 2713  
Lab R. 0835-1145am Room 2713

**Course Description:**

A comprehensive one semester general biology course for majors and non-majors.. Include life from the molecular to the organismic 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. Include laboratory component.(CSU,UC)

**Required Materials**

Text Book: **BIOLOGY THE ESSENTIALS** , Marielle Hoefnagel , I st Ed.McGraw Hill,NY  
(ISBN 978-0-07-809692-1)

Lab manual: **Laboratory Manuel to Accompany Biology**, .Sylvia Mader, 10<sup>th</sup> edition.McGaw-Hill, New York,NY(.ISBN 0390445789)

## **INSTRUCTOR'S INFORMATION**

Office2778 Tel. 355-5755 e-mail: [Andrew.Chien@imperial.edu](mailto:Andrew.Chien@imperial.edu)

Office hours M:1-130pm,545-615pm;; T:805-835am,440-510pm;;W:1-130pm,6-630pm;TR:1230-130pm

### **Attendance Policy:**

1. Class attendance and tardy policy follows the regulations in the IVC catalog.
2. Student may be automatically dropped after a total of 8 hours of absence in lecture or lab, unless a petition to justify absence is approved by instructor. During the first two weeks of class students can be automatically dropped after 3 hours of unexcused absences. After lecture and or lab have commences students cannot leave the class unless excused by the instructor. Early departure shall be counted as an unexcused absence. We are required by federal regulations to report drops to the veteran and financial aid office.
3. Explanations and any reasons for supporting reversal of absence must be presented to me by the next meeting time.
4. It is your responsibility (not mine) to drop before any deadline. The last day to drop full-time classes with a "W" is April 12 2014 if you stop coming to class and fail to drop timely you will earn a F grade.

### **Other Policies:**

1. No food or beverages in the classroom or lab.
2. No children or pets in classroom or lab.
3. All electronic devices (cell phones,MP3, tablets and lap tops etc.)need to be turn off or in quiet mode during lectures. Electronic devices are not allowed during examination. Using a laptop **to take notes** must be approved by me.
4. Any student with a documented disability who may need educational accommodations should notify instructor or the Disabled Student program and Services (DSP&S) as soon as possible. DS&S is at room 2117, Health Science Bldg. (760)355-6312.
5. Cheating is not tolerated! See IVC catalog for more policies on academic cheating.
6. Except for dry labs, all students must use goggles or safety glasses. No open-toe shoes.
7. All students must sign in the Student Safety Form: Webstar

### **SLO: Student Learning Outcome:**

Biology 100 has incorporated four of the five Institutional Outcomes for IVC: **Critical Thinking Skills**, , **Global Awareness** , **Communication Skills** and **Information Literacy Skills** into this course. You shall be evaluated based upon what a student is expected to learn as a result of participating in academic activities or experiences at Imperial Valley College. This SLO will focus on critical skills knowledge gained or demonstrated. The assessment method is the general assessment approach used to measure

whether students have achieved on outcome, such as test, practical and research paper. The assessment instrument is the actual product that is handed out to students.

**Exams and Grading:**

1. Lab Exercise to be turned in no later than one week after completion of lab sessions. Total 60 points.
2. Three quizzes, each worth 25 points, to cover lab materials and lab videos and lab CDs. **No make up.** One interactive test on Cellular Respiration worth 25 points. One of the lowest score dropped. Total 75 points.
3. One practical exam to cover animal dissection, 50 points. **No make-up.**
4. One research paper on subjects to be approved by instructor, 100 points. **MUST TURN IN ON OR BEFORE May 8 2014 ANY PAPER TURN IN LATE WILL GET A 60 SCORE MAXIMUM. Failure to turn in paper will get a zero point score!!**
5. Three to four written examinations, each worth 100 points. **No make-up exam.** The lowest score will be dropped. Total 200 or 300 points.
6. Final exam is accumulative and comprehensive, total 100 points.

Total points 610 (710)            A 90% or above

- B-80-89%
- C-70-79%
- D-60-69%
- F-below 60%

WK	DATE	LECTURE (TUESDAY)	DATE	LABORATORY (THURSDAY)
1	01-21	Chapter 1. Scientific Study Of Life	01-23	Introduction to the Lab / OPEN: Chapter 1/Open

<b>2</b>	01-28	Chapter 2. The Chemistry of Life	01-30	Exp. 3: Chemical Composition of Cells (3.1, 3.2, 3.3, 3.4)
<b>3</b>	02-04	Chapter 2 continue	02-06	Exp. 2: Metric & Microscopy (2.1, 2.3, 2.4, 2.5)
<b>4</b>	02-11	Chapter 27. Circulation	02-13	Exp. 4: Cell Structure & Function (4.3, 4.4, 4.5)
<b>5</b>	02-18	Chapter 27 continue	02-20	OPEN
<b>6</b>	02-25	Chapter 28. Nutrition and Digestion	02-27	OPEN
<b>7</b>	03-04	Chapter 28. continue	03-6	Exp. 7: Cellular Respiration (7.2)
<b>8</b>	03-11	Chapter 30. Reproduction	03-13	Exp 26'27. Fetal Pig Dissection
<b>9</b>	03-18	Chapter 30-continue	03-20	Exp 26/27. Fetal Pig Dissection
<b>10</b>	03-25	Chapter 24. Nervous System & Senses	03-27	LAB PRACTICAL EXAM
<b>11</b>	04-01	Chapter 24. Continue	04-03	Exp. 30: Senses
<b>12</b>	04-08	Chap 10. Patterns of Inheritance	04-10	Exp 6. Photosynthesis
<b>13</b>	04-15	Chap 10. Patterns of Inheritance	04-17	Exp. 10: Human Genetics
<b>14</b>	04-29	Chap 12,13,14 Prin of Evolution	05-01	Review
<b>15</b>	05-06	Chap 12,13,14 continue	05-08	Review
<b>16</b>	05-13	<b>FINAL EXAMS</b>	05-15	<b>FINAL EXAMS</b>