

California State University, Los Angeles
College of NSS/Department of Biological Sciences
BIOL3600, Functional Biology, Spring, 2023

COURSE INFORMATION

(ANIMAL SECTION: WEEKS 1-8)

Instructor: Dr. Jinae Roa

Office Location: ASCB 323D

Email: jroa5@calstatela.edu

Student Office Hours: Friday 9-10AM, ASCB 323D or by appointment for zoom

Lecture Days/Time: Tuesday and Thursday 1:40 PM – 2:55 PM

Lecture Location: SS L120

Prerequisites: BIOL 1200 or CHEM 2300 or equivalent.

Course Description

Students will explore organismal diversity, with particular focus on how eukaryotes' form and function evolved to fill ecological niches, with an emphasis on biological structures at the level of whole organisms and organs. Throughout the course we will use vertebrate animals and plants to explore principles of anatomy and physiology, behavior, and basic ecology. We will then compare how different adaptations offer advantages for overall survival within the environment.

Course Learning Objectives

Upon successful completion of this course, students will be able to:

- Demonstrate a basic understanding of the physical and chemical constraints placed upon living organisms by the terrestrial and aquatic environments.
- Describe the basic mechanisms that allow living organisms to carry on the fundamental necessities of life.
- Compare the variations in anatomical and physiological adaptations mandated by aquatic and terrestrial environments.

Course Structure

This course is to be conducted in person. You will have assignments in the course using the Cal State LA learning management system [Canvas](#) that you access through MyCalStateLA. Our “student office hours” are times when I am available to you for any questions about course content or if you need help.

REQUIRED COURSE MATERIALS

There is **NO** textbook for the animal portion of BIOL 3600

Computer Requirements

You will need to have an up-to-date browser, operating system and some additional software on your computer to take this class. Check the [ITS Helpdesk Student Resources page](#). Some of the documents in this course will be available to you in PDF form. You will need download and install [Adobe Acrobat Reader software](#) on your computer. You will need a microphone, web camera, or cell phone for interaction with instructor by the Zoom software that is accessed through Canvas.

COURSE COMMUNICATION

Interaction with Instructor

The instructors will make every effort to communicate frequently with students through announcements and postings within Canvas. Questions of a more personal nature can be sent via canvas or email: jroa5@calstatela.edu

As a student, you should expect to receive responses 24-48 hours Monday through Friday. The instructor will post an announcement alerting the students if she will be unavailable for more than a day.

Questions

In courses it is normal to have many questions about things that relate to the course, such as clarification about assignments, course materials, or assessments. Please also feel free to ask questions during the lecture or in student office hours.

Netiquette

When posting on any discussion boards or chat rooms it is important to understand how to interact with one another online, *netiquette*. You can read more about the rules of netiquette at [15 Rules of Netiquette for Online Discussion Boards](#).

Student Office Hours

Once a week **Friday 9-10AM** I will be available for student office hours in person in my office ASCB 323D. We can also meet by **Zoom upon request**.

Covid Policies

Cal State LA Covid 19 Protocols: Information and updates can be found at the following link: <https://www.calstatela.edu/healthwatch>. Symptoms of COVID-19 include fever, cough, and shortness of breath. If you become ill, please stay home and avoid contact with others, except for seeking medical care if needed. **Students** may seek medical care from the Student Health Center (SHC). For other information, please visit the [Student Health Center webpage](#)

ASSIGNMENTS AND GRADING POLICY

All classwork and exams will be completed in class, turned in via Canvas. While attendance is not taken, students are responsible for all classwork. Make-up work will only be provided for approved absences, or with a doctor's note in case of illness. Exams must be completed in-person, so **STUDENTS MUST SIGN OUT ON EXAM DAY**. Students will receive 0 points if they fail to sign out on exam day, and no re-takes will be provided.

Grades

You can view your grades using the GRADES button in the Canvas course navigation. Please check your grades regularly to make certain that I have received all your assignments. If you have a question about a grade, email me at jroa5@calstatela.edu.

Assignment	Points
Exam 1	150
Exam 2	150
Classwork	200
Total:	500

Grading Scale

Letter Grade	Percentage
A	92-100%
A-	90-91.9%
B+	87-89.9%
B	82-86.9%
B-	80-81.9%
C+	77-79.9%
C	70-76.9 %
D	60-69.9%
F	<59.9%

HELPFUL STUDENT RESOURCES

Technical Resources

Information on Cal State LA technical support resources for students: [Technical Support Resources](#)

Student Support Resources

Information on Cal State LA student support resources for students: [Student Support Resources](#)

Academic Support Resources

Information on Cal State LA academic support resources for students: [Academic Support Resources](#)

Canvas Student Support

Information for students on how to be a successful online student and how to use Canvas:

- Canvas Student Guide
- Canvas Student Tour Course

Glazer Family Dreamers Resource Center

The [Erika J. Glazer Family Dreamers Resource Center](#) promotes the success of undocumented students and students from mixed-status families at Cal State LA through a variety of resources, services, and community engagement opportunities. Such programs and services are weekly immigration legal clinics, California Dream Act Application for Financial Aid Assistance, and academic development workshops.

UNIVERSITY POLICIES

Student Conduct

Information on student rights and responsibilities, standards of conduct, etc., can be found by visiting the Cal State LA [University Catalog Appendices](#).

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drops, academic renewal, etc. Students should be aware of the current deadlines and penalties for adding and dropping classes by visiting the [GET home page](#).

Americans with Disabilities Act (ADA)

Reasonable accommodation will be provided to any student who is registered with the Office of Students with Disabilities and requests needed accommodation. For more information visit the [Office for Students with Disabilities](#) home page.

Academic Honesty

Many incidents of plagiarism result from students' lack of understanding about what constitutes plagiarism. However, you are expected to familiarize yourself with the [Cal State LA Academic Honesty Policy](#) including [Appendix D – Academic Honesty](#) and [Appendix E - Student Conduct / Student Conduct Procedures](#). All work you submit must be your own scholarly and creative efforts. Cal State LA plagiarism as follows: "At Cal State LA, plagiarism is defined as the act of using ideas, words, or work of another person or persons as if they were one's own, without giving proper credit to the original sources." In this course we may utilize turnitin.com, an automated system which instructors can use to quickly and easily compare each student's assignment with billions of web sites, as well as an enormous database of student papers. After the assignment is processed, I receive a report from turnitin.com that states if and how another author's work was used in the assignment. Please visit the [Turnitin Student FAQ](#) page for more info. Exams are individual assessments. Working together on exams (in person or virtually) and sharing of any exam content during the exam period is considered a violation of the Cal State LA Academic Honesty Policy.

COURSE SCHEDULE (Animal Section: Weeks 1-8)

Week	Lecture Date	Lecture Topic
1	Jan. 24	Introduction to Animal Systems I: General Animal Organization
	Jan. 26	Introduction to Animal Systems II: Homeostasis
2	Jan. 31	Nervous System I
	Feb. 02	Nervous System II
3	Feb. 07	Input/Output Systems I: Sensory System
	Feb. 09	Input/Output Systems I: Musculoskeletal System
4	Feb. 14	Midterm Exam (Animal Biology)
	Feb. 16	Circulatory System
5	Feb. 21	Endocrine System
	Feb. 23	Digestive System
6	Feb. 28	Osmoregulation I: Osmotic Balance and the Mammalian Kidney
	Mar. 02	Osmoregulation II: Coping with the Environment
7	Mar. 07	Respiratory Systems I: General
	Mar. 09	Respiratory Systems II: Coping with the Environment
8	Mar. 14	Midterm Exam (Animal Biology)