

Biology 1108 Principles of Biology II

Biology Department, College of Arts and Sciences, Valdosta State University
Section IA (CRN 52746) (3 credit hours)

Summer Semester, 2020

Instructor - Dr. J. Mitchell Lockhart

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Office Hours: As posted or by appointment

Course hours: Lecture – **Asynchronous**. Available on Blazeview

Textbook -

ISBN	Format	Edition	Author
9781319126193	LoosePgs w/LaunchPad Access	11th	Sadava
9781319125714	Hardcover w/LaunchPad Access	11th	Sadava
9781319025311	eBook w/LaunchPad Access	11th	Sadava

Note that LaunchPad Access is MANDATORY.

Use the following URL to register for this course in LaunchPad:

<https://www.macmillanlearning.com/college/us/product/Life-The-Science-of-Biology/p/1319010164>

Course Description: An introduction to physiological processes in plants and animals. Structure, nutrition, transport, coordination, reproduction, and development will be addressed.

Course Goals: The purpose of this course is to provide you with a broad introduction to the study of biology. The course is introductory and topical in nature but upon completion of this course you will be prepared for advanced specialized courses in biology. It will also provide you with a background to better understand many of the technological issues and challenges confronting our nation and the world.

This course will focus on understanding the physiology of major systems in plants and animals. You will learn common experimental tools and techniques used in physiology. An emphasis will be placed on learning how to analyze basic biological data using quantitative tools such as Excel.

This course will assist you in developing communication skills as well as information processing skills. These abilities are critical for all students, both those who wish to attend professional school (medical, dental, etc.) and graduate school as well as those who will move directly into the job market following graduation. Your critical thinking skills will be enhanced through analysis of lab exercises, class assignments, and test questions.

Pre-Requisite: BIOL 1107

Attendance: For Summer 2020, this course will be fully online and conducted in an asynchronous manner. **YOU are responsible for your own pace and progress in this course.** It is a rapid course with a very quick tempo. Falling behind is not conducive to being successful.

Students With Documented Disabilities: Students requiring accommodations or modifications because of **documented** disabilities should discuss this need with Dr. Lockhart at the beginning of the semester. Students with disabilities who are experiencing barriers in this course may contact the Access Office for assistance in determining and implementing reasonable accommodations. The Access Office is located in Farber Hall.

The phone numbers are 229-245-2498 (V), 229-375-5871 (VP) and 229-219-1348 (TTY). For more information, please visit VSU's Access Office or email: access@valdosta.edu.

Assessment: For the lecture grade, four exams plus a comprehensive final will be given. Each exam will be worth 20% of your final grade. Exam questions will be in a variety of formats including (but not limited to) essay, short answer, multiple choice, fill in the blank, drawings, etc...Any questions concerning grading should be brought to the attention of the professor **NO LATER** than one week following return of the exam. **NO make-up lecture exams or quizzes will be given for any reason.** You may drop your lowest score from Exam 1,2,3, or 4. You may not drop the comprehensive final exam grade.

The final grade will be 80% of the exam scores above and 20% LearningCurve as discussed below.

Grade Scale: **90-100 = A, 80-89 = B, 70-79 = C, 60-69 = D, <60 = F**

LearningCurve online assignments: LearningCurve is an adaptive quizzing and personalized homework program available at the LaunchPad web site. LearningCurve adaptive quizzing gives each student individualized question sets and feedback based on their correct and incorrect responses. All the questions link back to the e-book to encourage students to read the book in preparation for class-time and exams. You are to complete a LearningCurve assignment for each textbook chapter that we cover. Exam dates serve as the deadline. In other words, if exam #1 covers chapters one through four you would have until the exam date to complete the assignment for all four chapters. I strongly suggest you complete the LearningCurve assignments before we discuss the chapter in lecture or immediately upon completion of the chapter in lecture. LearningCurve assignments are completed by attaining a Target Score established by the instructor. The number of questions you must complete are based upon your ability to select the correct answer for each question. Grading on LearningCurve will be 5 points for achieving the Target Score and 0 points for not achieving the Target Score.

Privacy Act: Because of the Buckley Amendment or Privacy Act, grades will not be discussed over the phone, via email, given to friends, or given to relatives. Note that this rule will be suspended for Summer 2020 with regard to discussing grades online and via email.

Title IX: Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment. VSU is dedicated to creating an environment where all campus community members feel valued, respected, and included. Valdosta State University prohibits discrimination on the basis of race, color, ethnicity, national origin, sex (including pregnancy status, sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, national origin, disability, genetic information, or veteran status, in the University's programs and activities as required by applicable laws and regulations such as Title IX. The individual designated with responsibility for coordination of compliance efforts and receipt of inquiries concerning nondiscrimination policies is the University's Title IX Coordinator: Maggie Viverette, Director of the Office of Social Equity, titleix@valdosta.edu, 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31608, 229-333-5463.

Cheating: Refer to the Student Code of Ethics in the Valdosta State University Student Handbook. A student caught cheating will be penalized ranging from receiving a zero for that assignment or test to failing the class.

Important Dates: Mid-Term – July 6, **Final Exam** – July 30

The Instructor reserves the right to modify the above contents with proper notification.

Course Outcomes:

Valdosta State University General Educational Outcomes (GEO)

1. Students will demonstrate understanding of the society of the United States and its ideals.
2. Students will demonstrate cross-cultural perspectives and knowledge of other societies.
3. Students will use computer and information technology when appropriate.
4. Students will express themselves clearly, logically and precisely in writing and in speaking, and they will demonstrate competence in reading and listening.
5. Students will demonstrate knowledge of scientific and mathematical principles and proficiency in laboratory practices.
6. Students will demonstrate knowledge of diverse cultural heritages in the arts, the humanities, and the social sciences.
7. Students will demonstrate the ability to analyze, to evaluate, and to make inferences from oral, written and visual materials.
8. Students will demonstrate knowledge of principles of ethics and their employment in the analysis and resolution of moral problems.
9. Students will demonstrate understanding of the physical universe and the nature of science, and they will use scientific methods and/or mathematical reasoning and concepts to solve problems.

Department of Biology Educational Outcomes (BEO)

1. Develop and test hypotheses, collect and analyze data, and present the results and conclusions in both written and oral format used in peer- reviewed journals and at scientific meetings.
2. Describe the evolutionary process responsible for biological diversity, explain the phylogenetic relationships among the other taxa of life, and provide illustrative examples.
3. Demonstrate an understanding of the cellular basis of life.
4. Relate the structure and function of DNA/RNA to the development of form and function of the organism and to heredity
5. Interpret ecological data pertaining to the behavior of the individual organism in its natural environment; to the structure and function of populations, communities, and ecosystems; and to human impacts on these systems and the environment.