

BIOL 1108: Principles of Biology II  
Department of Biology, College of Math and Science, Valdosta State University  
Spring 2022, Syllabus and Course Policies

Lecture: Bailey Science Center, Room 1011 – MW 3:30-4:45 PM

**Section A:** CRN# 24674 (3 credit hours)

Instructor: Eric Chambers (Dr. Chambers) Office: BSC 2214 Phone: 229-249-2736

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Office Hours: Tuesday and Thursday 10:00-11:30 AM

Graduate Assistant (GA): TBA

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

**Required Materials:** This course is participating in the Day 1 Textbook Savings Program. Your course materials may be accessed digitally through your Blazeview account on the first day of class. Although an optional print copy of the book is available at the campus bookstore, NO other purchase is necessary. Your course material charge is included in your student bill and guarantees the lowest cost available for the textbook and the Achieve learning system. Your course materials include the following:

- 1. Textbook:** We will be using a textbook provided by OpenStax, a 501(c)(3) nonprofit charitable corporation associated with Rice University in Texas. You will be able to access the digital version of this textbook through a link in Blazeview.
- 2. Achieve:** This is an online learning system through Macmillan publishing that is integrated into Blazeview. It offers assessment tools and content to support you in your learning and understanding of the material. There will be weekly online assessments that you will complete to assist you in learning the material and preparing for exams. The OpenStax digital textbook is integrated into the Achieve platform. All of this is easily accessible through the Blazeview LMS.
- 3. Interactive Response System:** Turning technologies Mobile phone app & 1 yr. account (approx. \$24.99). This is the same response system that was used in Fall 2021 BIOL 1107. If your subscription is still active your account should automatically be registered into this course.

**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 semester we will focus on understanding the physiology of 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.

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.

**Educational outcomes: Listed at the end of syllabus**

<u>Assessments:</u>	<u>Points</u>
○ Unit Exams	400
○ Rapid Response	75
○ Achieve Quizzes	75
○ Final Exam (optional)	replacement points (100)
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TOTAL POSSIBLE POINTS	550
Extra Credit	Instructor Discretion

**Dropped Grade:** The lowest score you receive among the **lecture exams** will be dropped and not used to calculate your final grade. This means that although there are 650 possible lecture points only 550 points will count toward your final grade.

To determine your lecture grade, divide the total points earned by the total possible points and divide by 100.

Table 1.

<u>Exam 1</u>	<u>Exam 2</u>	<u>Exam 3</u>	<u>Exam 4</u>	<u>Extra Credit Points</u>	<u>Rapid Response questions</u>	<u>Achieve Quizzes</u>	<u>Final Exam</u>	<u>Total minus lowest score</u>
<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>TBD</u>	<u>75</u>	<u>75</u>	<u>100</u>	<u>550</u>

Fill in the empty cells with your exam and assignment scores.

**Explanation of Lecture Assignments:**

**Lecture Exams: Students will have 75 minutes to complete each exam**

A total of 4-unit exams will be given during the semester. The dates are included in the tentative schedule at the end of the syllabus. All exams will be in a multiple-choice format. I only allow make-up exams for university-related events or approved medical/personal issues. If you become ill, please email me ASAP. If you know you will miss an exam for a university-related reason, please contact me ahead of time to discuss an appropriate date for scheduling your make-up exam. **I will no longer automatically approve make-up exams for missed exams that do not meet the above criteria.**

**Achieve Quizzes:** At the end of each chapter you will complete an online assessment using the Achieve learning system. Question formats will be varied and will include: multiple choice, labeling, ranking, and other types of questions.

**Rapid Response Polling Questions:** In this course we will utilize TurningTechnologies web-based polling technology to increase class engagement during lecture. Web-based polling questions

will provide you a chance to receive immediate feedback on your understanding and interpretation of important biological principles. Polling questions will begin during the second week of class. You are expected to answer 90% of the rapid response questions.

You will receive 1 point for each poll question that you answer during class (both correct and incorrect responses earn 1 point). You will receive 0 points if you do not respond during class or if you miss class. It is **your** responsibility to remember your response device and to make sure it is charged.

**These are not attendance points. Do not come up to me after class to tell me you were in class, or to give me a piece of paper with the responses. You only earn the points by responding using the web-based system! You are responsible for troubleshooting any technical issues and contact TurningTechnologies customer support.**

**Grade Scale:** For Biology majors a grade of C or higher is required for this course.

A 90-100% (495-550 points)

B 80-89% (440-494 points)

C 70-79% (385-439 points)

D 60-69% (330-384 points)

F < 60% (0-329 points)

**Notes on grading:** Students should note that a grade of "A" in this course represents an exemplary command of the material covered. To obtain this grade of excellence, it is recommended that students study daily and clarify with their instructor any problems regarding course information, as they arise.

**Biology Tutoring:** The Academic Support Center (ASC) at Valdosta State University is located on the second floor of the Odum Library. The ASC provides free peer tutoring in core curriculum courses, including biology, chemistry, math, writing, and foreign languages. The ASC also provides periodic workshops covering topics such as time management and study skill development. Call 333-7570 to make an appointment, or visit their website at <https://www.valdosta.edu/asc/>

**Academic conduct:** Cheating and plagiarism will not be tolerated and may result in a failing grade for the assignment, exam or the class.

**Lecture Conduct:**

Arrive on time

- Quickly find your seat
- Turn off/silence cell phones during class and lab.
- Remove headphones and earbuds while in lecture, lab, and during exams.
- Don't talk during lecture except during active learning exercises or asking a question
- Avoid leaving class early
- You and you alone use your rapid response device in class. If your phone or clicker is found in the possession of another student both of you will lose all your clicker points for the semester!
- Do not share the session ID for each lecture period with students who are not physically present in the lecture hall. This means do not email, text, instant message, or communicate

the ID number to anyone **NOT** in the lecture hall. You are free to share the ID number with other students in lecture.

**Procedure for exams:**

- No books, electronic devices, or notebooks will be allowed during exams and students using such items will be asked to leave and will receive a zero for the exam.
- No talking will be allowed during the exam, but students are permitted to ask the instructor questions.
- Each student will be given an exam to be completed and handed back to the instructor.
- Students must bring a pencil and will take the exam during the stated lecture time only.
- **NOTE:** You will have the class time only to complete each lecture exam.

**Student identification:** Students should have in their possession at all times their VSU student identification card. Because of the large size of the class this semester we will be checking student ID or another form of picture ID during exams.

**Privacy Act (FERPA):** The Family Educational Rights and Privacy Act (FERPA) prohibits the public posting of grades by social security number or in any manner personally identifiable to the individual student. No grades can be given over the telephone or over email because positive identification can't be made.

**Access Statement:** 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 Farbar 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](mailto:access@valdosta.edu).

**Title IX Statement:** 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](mailto:titleix@valdosta.edu), 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31608, 229-333-5463.

**Campus Gun Carry Statement (HB 280):** If you choose to carry a concealed weapon on campus, you are responsible for knowing and following the law. Refer here for FAQ: <https://www.valdosta.edu/administration/finance-admin/police/campuscarry/>

**Coronavirus Resources for Students:** VSU cares about student success both on and offline, and a variety of resources are available to help students both academically and personally during the Spring 2022 semester.

One of the best resources is VSU's Coronavirus FAQ page located at <https://www.valdosta.edu/health-advisory/faq.php>. Information is available there about a variety of topics in VSU's return-to-campus plan. A website devoted to the health and wellness of VSU students can be seen at <https://www.valdosta.edu/administration/finance-admin/campus-wellness/student-resources.php>.

**Spring Semester 2022 Guidance FROM THE UNIVERSITY SYSTEM OF GEORGIA**

- All faculty, staff, and students are strongly encouraged to receive a COVID-19 vaccine.
- No student, faculty or staff member should be treated differently based on their COVID-19 vaccination status.
- Students should not be asked about their vaccine status and segregated in a classroom or from other instructor-student interactions (e.g., office hours, group work, field trips, labs, etc.) based on their vaccination status.
- Vaccination status can be used to determine whether or not a person should quarantine after a close contact with a person who tests positive for COVID-19.
- Masks/face coverings are not required on campus. Two exceptions may apply on campuses – health center/medical facility and public transit. Un-vaccinated individuals are strongly encouraged to continue wearing a mask or face covering.
- Institutions will return to campus in the fall with no social distancing measures. Un-vaccinated individuals are strongly encouraged to continue social distancing whenever possible.

**\*Key Dates :**

**January 10, 2022 – First day of class**

**January 13, 2022 - Registration for Spring semester ends (11:59 pm)**

**January 17, 2022 – Martin Luther King, Jr. Holiday (University closed/no classes)**

**March 3, 2023 – Official midterm; Students can view In-progress grades**

**March 10, 2022 – Withdrawal deadline for full-term VSU courses Spring 2022**

**March 14-18, 2022 – Spring break**

**May 5, 2022 – Final Exam 2:45-4:45 PM**

**Tentative Lecture Schedule, BIOL 1108, Section A, Spring 2022**

<b>Week</b>	<b>Topics</b>	<b>Chapter</b>
Jan 10-12	Syllabus; Phylogenies and History of Life	Syllabus; 20
Jan. 17-19	<b>No Class – Martin Luther King, Jr. Holiday</b> Animal Body: Basic Form and Function	33

Jan. 24-26	Animal Nutrition and the Digestive System	34
Jan. 31-Feb. 2	Nervous System	35
Feb. 7-9	<b>Exam #1 (Ch. 20, 33, 34, 35);</b> Endocrine System	37
Feb. 14-16	Musculoskeletal System	38
Feb. 21-23	Respiratory System	39
Feb. 28-Mar. 2	Circulatory System	40
Mar. 7-9	<b>Exam #2 (Ch. 37, 38, 39, 40);</b> Osmotic Regulation and Secretion	41
<b>Mar. 14-16</b>	<b>No Class-Spring Break</b>	--
Mar. 21-23	Immune System	42
Mar. 28-30	Animal Reproduction and Development	43
April 4-6	Seedless Plants; Seed Plants	25, 26
April 11-13	<b>Exam #3 (Ch. 41, 42, 43, 25);</b> Plant form and Physiology	30
April 18-20	Soil and Plant Nutrition	31
April 25-27	Plant Reproduction	32
May 2	<b>Exam #4 (Ch. 26, 30, 31, 32)</b>	–
<b>May 5</b>	<b>Final Exam (2:45-4:45 pm)</b>	

#### 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.