

Valdosta State University, BIOL 1107, Section A

(3 Credit Hours)

Principles of Biology I – Spring 2022

Syllabus & Course Policies

For Science, Math, and Some
Health Science Majors

Lecture: BC 1011 - MWF, 9:00-9:50 am

Lecture Instructor: Dr. Emily Cantonwine (Dr. Cantonwine)

Office: BC 2031, Phone: (229) 333-5337

Email: egcantonwine@valdosta.edu

Office hours: BC 2031, TWRF 2:00-3:00. You are welcome to stop by my office at other times too. If I have time to meet, we can do so. If not, we will make an appointment. I do not make appointments over email and do not send out my office hours or office number over email either.

Graduate Assistant (GA): Jae Kang, hkang@valdosta.edu - manages grade entry, lecture assessments & excused absences.

Supplemental Instructor: TBD

Welcome to Principles of Biology I. This is the first course in a series of courses at VSU designed to develop a strong foundation in the biological sciences.

BIOL 1107 Course Description. An introduction to the principles of biology for science majors, with an emphasis on the cellular nature of life. Concepts covered include the origin and early evolution of cellular life; cell structure, function, metabolism, and reproduction; cell signaling; and gene regulation in bacteria and eukaryotes. There are no prerequisites for this course. BIOL 1107 lab is a co-requisite for students who have not already completed that course and BIOL 1100 is a co-requisite for Freshman Biology majors (offered Fall semesters only)

Required Resources:

Turning Point App and License - \$24.99 1yr license

Macmillan Achieve – DayOne - Integrated into Blazeview

OpenStax Biology – Free – Integrated into Blazeview

www.openstax.org/details/books/biology-2e

Course Objectives and Outcomes: By the end of this course, students will be able to

- demonstrate an understanding of fundamental concepts of biology, including
 - o the scientific method and experimental design
 - o cellular structure, function, metabolism, and reproduction
 - o the nature of the gene and its action
 - o the mechanisms of evolution
- apply academic skills critical to success in upper-division science courses and intended careers, such as
 - o accurate interpretation of graphs and diagrams
 - o fluent use of scientific terminology
 - o effective study skills

ASSESSMENTS

<u>Assessments</u>	<u>Possible Points</u>	<u>Percentage</u>	<u>SCALE</u>
Unit Exams (5)	500 (100 each)	58.8 %	A ≥ 90%
Final Exam	100	11.8%	B ≥ 80%
Lecture Assessment	100	11.8%	C ≥ 70%
<u>Achieve HW (10 of 13)</u>	<u>150 (15pt each)</u>	<u>17.6%</u>	D ≥ 60%
Total	850	100%	F < 60%
Extra Credit	50	+5.88%	

Monitoring and computing your grade. All grades will be posted to Blazeview. Your grade can be computed at any time [**Grade = points earned/possible points x 100**] using details above and below, or [**Grade = (average unit exam grade x 0.588) + (final exam x 0.118) + (lecture assessment percentage x 0.118) + (Achieve HW percentage grade x 0.206) + (extra credit percentage grade x 0.0588)**] using the category percentage grades in the BV gradebook.

UNIT EXAMS AND FINAL EXAM – All examinations are required, including the final; and, unless the course moves to remote learning, all examinations must be taken in-person. If you miss an exam, you have 24hr to set-up a make-up exam. If you fail to contact me within this timeframe, or if you have already completed one make-up test, you forfeit the opportunity to take the original exam as a make-up. The alternative make-up exam will include fewer Multiple-Choice questions and more Short Answer questions.

Exams will not be passed back, but there will be an opportunity to review your exam the week after the exam date.

LECTURE ASSESSMENT – Beginning the third week of class, your understanding of lecture material will be assessed during class using the TurningPoint clicker app. The number of clicker questions will vary by lecture. If you answer a question correctly, you earn 2pt, if you answer incorrectly, you earn 1pt, and if you fail to answer, you earn 0pt. A 50% or higher score will earn you full credit (100%) for the assessment. Please allow 1 week for the grade change to occur in BV. If you earn <50%, or if you missed the lecture due to an excused or unexcused reason, you can turn in your assessment remotely (for up to 6 lectures) as follows: 1) watch the lecture in Kaltura, 2) hand write each clicker question, including diagrams and all answer options, 3) identify the correct answer and provide a written explanation as to why this answer is correct. Upload your work to the Lecture Assessment Folder in Blazeview Assignments **BEFORE THE NEXT LECTURE**. This alternative participation opportunity will only be allowed for 6 lectures after lecture assessments begin. Please note that HEIC files and late work will not be accepted. A single pdf file is preferred. You can create pdf files easily using a free scanning app, i.e. Genius Scan. These 6 opportunities are designed to address excused and unexcused absences, as well as user-errors with TurningPoint during the lecture period. The Lecture Assessment is worth 100 points. Each missed day will be approximately 3.5 points deducted from your grade.

To use the TurningPoint app, you will need to download the app to you phone and create an account with your **valdosta.edu address**. Always sign-in to the app using this address! Do not sign-in as guest – this is a common reason for user-error. You will also need to purchase a license/subscription/registration (all three words means the same thing).

ACHIEVE GRADED WORK (HOMEWORK) - There will be thirteen graded HW assignments conducted through Achieve, a supplemental learning system. These will be available by the end of the day on Monday, when due date is Friday, or by the end of the day on Friday, when due date is Wednesday. See the Tentative Schedule for Due Dates. The 3 lowest scores will be dropped from your final HW calculation. Please do not assume that a perfect HW score means you are prepared for the exam. HW is open notes, exams are not, there are 2 attempts for each HW question, only 1 attempt on exams, and HW will not cover as much of the lecture content as exams. A copy of each assignment will be reopened after the due date for student practice/reference.

ACHIEVE UNGRADED WORK– You will see several due dates for assignments within Achieve that are not attached to a grade, including readings from the text and interactive practice opportunities for many of the more challenging concepts. Most of these assignments will be available the entire semester. If you find that you do not understand a concept after the lecture, the readings, and the interactive practice, please seek my help before the unit exam during office hours.

EXTRA CREDIT (BONUS)- There are a handful of extra credit assignments worth 50pt total that will be provided throughout the semester. All will be assessed through BV Quizzes. See tentative schedule. FYI, an extra 50 points equates to an extra 5.88% --- over half a letter grade. Do not miss these opportunities!

CURVE – Final grades are automatically curved to the nearest 10th of a percent, meaning 89.5 = 90. I will curve more if fewer than 7% of the class have an A. If this happens, all students will receive the same curve. FYI, most semesters an extra curve is not required.

Course Policies, Procedures, & Expectations:

Expectations.

- Attend class regularly, arrive on time & stay the entire class period.
- Pay attention (avoid distractions). The skill of attention and self-discipline is yours to develop, not mine to police. I wish you all good luck in this area!
- PowerPoint slides are not provided, so it is your responsibility to take notes. I may lecture faster than you can take notes. If this is the case, write down as much as you can while still being able to follow the lecture, and fill in the rest after class using the lecture recording in Kaltura Media Gallery. As long as your notes are complete before the next lecture period, you will be fine.
- If you arrive late or must leave early, use the second-floor doors to reduce distractions.

Laptop/Tablet policy. Off-task laptop/tablet use is distracting to others in the class, so these devices may be used for notetaking only if you STAY ON TASK.

Cell phone/Smart device policy. I encourage you to use your device only for the TurningPoint app. The app tracks how many times other apps are opened for each user, but I will only look at these data if you reach out to me for help and are at risk of not passing the course.

Earbuds/Headphones. Earbuds/headphones are not allowed during lecture.

Food and drink policy. Drinks and snacks are allowed if they can be consumed quietly and without distracting others. **Breakfast is not acceptable!**

Office hours and emails. The best time to come to my office is during office hours. Just show up. If my office hours do not work for you, please come by at your convenience to see if I am free to meet. I can usually find time for you! But if not, we will set-up an appointment. **I do not set-up appointments via email. If you ask over email, I will tell you to come by. I do not respond to emails that ask when my office hours are, or where my office is. This information is on this syllabus.**

Concealed Carry: Firearms are not permitted in BIOL 1107 lecture because the course includes some students who are minors.

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 Cantonwine, Spring 2020

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: titleix@valosta.edu

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.

Academic Integrity: I follow the Academic Honesty Policies and Procedures of the University and the Department of Biology's Policy on Plagiarism. For more information, refer to www.valdosta.edu/academic/AcademicHonestyPoliciesandProcedures.shtml and www.valdosta.edu/biology/documents/biologyplagiarism.doc. "Academic Integrity/ Honesty" means performing all academic work without plagiarism, cheating, lying, tampering, stealing, receiving unauthorized or illegitimate assistance from any other person, or using any source of information that is not common knowledge.

Important information:

- For Biology majors, a grade of C or higher is required to move on.
- Midterm is March 3rd.

Tentative Lecture Schedule, BIOL 1107K, Section A, Spring 2022

Dates	Subject	Chapters	Homework due 11:59pm on the following dates
Jan 10 Jan 12 Jan 14	Syllabus Introduction to life Classification of life & cellular diversity	Introduction 1 1	<i>BV QUIZ Bonus 1 (due Fri)</i>
Jan 17 Jan 19 Jan 21	<i>MLK Jr. Day – No Class</i> Theory of Biological Evolution Evolution of life on Earth	No Class 22.1 & 23.1 22.1 & 23.1	Achieve HW 1 (due Fri)
Jan 24 Jan 26 Jan 28	Cellular structure & function Cellular structure and function Cellular membrane structure & function	4 4 5.1	Achieve HW 2 (due Fri)
Jan 31 Feb 2 Feb 4	EXAM 1 (Lectures 1/10-1/26; Ch 1, 22.1. 23.1, 4) Basic chemistry Macromolecule	EXAM 1 2 2	Achieve HW 3 (due Fri)
Feb 7 Feb 9 Feb 11	Macromolecules Macromolecules Cellular transport	3 3 5	Achieve HW 4 (due Fri)
Feb 14 Feb 16 Feb 18	Cellular transport Catch-up or Review EXAM 2 (Lectures 1/28-2/16; Ch 2, 3 & 5)	5 Catch-up/Review EXAM 2	<i>BV Quiz Bonus 2 (due Weds)</i> Achieve HW 5 (due Weds)
Feb 21 Feb 23 Feb 25	Enzymes & Metabolism Enzymes & Metabolism Enzymes & Metabolism	6 6 6	Achieve HW 6 (due Fri)
Feb 28 March 2 March 4	Cellular respiration Cellular respiration ----- Midterm is March 3 Photosynthesis	7 7 8	Achieve HW 7 (due Fri)
March 7 March 9 March 11	Photosynthesis Catch-up or Review Ch 6-8 EXAM 3 (Lectures 2/21-3/7; Ch 6, 7 & 8)	8 Catch-up/Review EXAM 3	Achieve HW 8 (due Weds)
March 14-18	- SPRING BREAK -	-----	-----
March 21 March 23	Genes and Proteins Genes and Proteins	15 15	<i>BV Quiz Bonus 3 (due Weds)</i>

March 25	Gene Expression	16	Achieve HW 9 (due Fri)
March 28	Gene Expression	16	
March 30	The Cell Cycle – Mitosis & Cytokinesis	10	
April 1	Sexual Life Cycle – Meiosis & Fertilization	11	Achieve HW 10 (due Fri)
April 4	DNA Replication	14	
April 6	Catch-up or Review	Catch-up/Review	Achieve HW 11 (due Weds)
April 8	EXAM 4 (Lectures 3/21-4/6; Ch 15, 16, 10, 11, 14)	EXAM 4	
April 11	Basic Mendelian Genetics	12	
April 13	Basic Mendelian Genetics	12	
April 15	Mutations	14	Achieve HW 12 (due Fri)
April 18	Mutations	14	<i>BV Quiz Bonus 4 (due Mon)</i>
April 20	Cell communication	9	
April 22	Topic TBA		Achieve HW 13 (due Fri)
April 25	Topic TBA		<i>BV Quiz Bonus 5 (due Mon)</i>
April 27	Catch-up or Review		
April 29	EXAM 5 (Friday, May 1, Ch.12.1, 15, 7, 11.2 & 11.7)	EXAM 5	
May 2	Review for Final		
May 6	Cumulative Final Exam (Friday, May6, 8:00-10:00am)	FINAL EXAM	