

Valdosta State University, BIOL 1107, Section A

(3 Credit Hours)

Principles of Biology I – Spring 2024

Syllabus & Course Policies

For Science, Math, and Some
Health Science Majors

Lecture: BC 1011 - MWF, 8:00-8:50 am

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

Office: BC 2218 – second floor, southeast corner of the Bailey

Phone: (229) 333-5337

Email: egcantonwine@valdosta.edu

Office hours: Just show up - MWF 9:00-10:00 & TR 2:00-3:00

Appointment hours: Sign up - WF 1:00-3:00 & TR 3:00-5:00

Graduate Assistant: Bailee Taylor, baitaylor@valdosta.edu

PAL embedded tutor: Julia Higdon, jrhigdon@valdosta.edu

Office hours. The best time to talk with me is during office hours. **Just show up.** If these times do not work, please sign-up to meet during my appointment hours. The sign-up sheet is posted outside my office door. **Unless it is an emergency, I prefer to communicate face-to-face than over email.**

I am not an IT person! The GeorgiaVIEW Help Center offers 24/7 Blazeview support. Call 855-772-0423, or live chat at <https://d2lhelp.view.usg.edu/s/>

Welcome to Principles of Biology I. This is the first course in a series 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:

OpenStax Biology – Free – Integrated into Achieve and available online at www.openstax.org/details/books/biology-2e

Macmillan Achieve – Day1 Access – You have already paid; you just need to opt-in through Blazeview to access.

iClicker – Day1 Access – You have already paid; however, you do need to download the app to your phone and connect the app to your Blazeview account by Labor Day.

- 1) Use your valdosta.edu email to setup the account in the iClicker Student app.
- 2) Visit www.student.iclicker.com to enter your iClicker code.
- 3) The iClicker code is found in the Day1 Course Materials link in Blazeview.

BIOL 1107 meets the Technology, Mathematics, & Sciences IMPACTS Requirement.

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

- demonstrate an understanding of how life, at its simplest (the cell), works. This including:
 - o cellular structure, function, metabolism, and reproduction
 - o the nature of the gene and its action
 - o the mechanisms of evolution
- develop and apply academic skills critical to success in upper-division science courses and intended careers, including:
 - o accurate interpretation of graphs and diagrams
 - o fluent use of scientific terminology
 - o effective listening, notetaking, and study skills

ASSESSMENTS

<u>Assessments</u>	<u>Possible Points</u>	<u>Percentage</u>	<u>SCALE</u>
Achieve HW (10 of 13)	150 (15pt each)	17.4%	A ≥ 90%
iClicker Lecture Assessments	100	11.8%	B ≥ 80%
Unit Exams (5)	500 (100pt each)	59.0% (11.8% each)	C ≥ 70%
<u>Final Exam</u>	<u>100</u>	<u>11.8%</u>	D ≥ 60%
TOTAL	850	100%	F < 60%
Extra credit	40	+4.7%	

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 0.59) + (final exam x 0.118) + (lecture assessment percentage x 0.118) + (Achieve HW percentage grade x 0.174) + (extra credit percentage grade x 0.047)**] using the category percentage grades in the BV gradebook.

ACHIEVE GRADED WORK (HOMEWORK) - There will be thirteen graded HW assignments conducted through Achieve, a supplemental learning system. Most will be available on Mondays with Friday due dates, or Fridays with Wednesday due dates. See the Tentative Schedule for Due Dates. Missed assignments cannot be completed late for a grade; however, **the 3 lowest scores will be dropped from the gradebook at the end of the semester**. Achieve HWs will be reopened after the due date for practice/reference. HW is worth 150 points. You are encouraged to complete ungraded learning opportunities that I will be recommending in Achieve, but these are not required.

iClicker LECTURE ASSESSMENTS – Beginning the second or third week of class, your understanding of lecture material will be assessed during class using iClicker. **At the end of the semester, the lowest 33% of your iClicker grades will be dropped.** Low grades because of excused absences, user-errors, and glitches with the app are accounted for with this high drop rate. If you experience more glitches than others, it is your responsibility to let me know so I can help you fix the issues.

UNIT EXAMS AND FINAL EXAM – All examinations are required, including the final. Exams must be taken in-person. If you miss an exam, you have 24 hr to set up a make-up. 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. The alternative exam will include fewer multiple-choice questions and more short answer questions. *Exams will not be passed back, but there will be opportunities to review your exam the week after the exam date. Exam reviews can occur any time after this date during office hours.*

EXTRA CREDIT (BONUS)- There are four extra credit (bonus) assignments worth 40pt total. All will be assessed through BV Quizzes. See tentative schedule. On the last day of class, an *in-lecture only* opportunity will be provided for students to make-up or replace one bonus quiz. Students cannot earn more than 40 bonus points. Do not miss these opportunities!

CURVE – Your final grades is automatically curved to the nearest percent, meaning 89.5 = 90. An additional curve may be applied if the number of students earning an A does not meet my target. If there is an additional curve, the curve will be the same for all students.

Course Policies, Procedures, & Expectations:

The GeorgiaVIEW Help Center offers 24/7 Blazeview support. Call 855-772-0423 or visit their website for live chat <https://d2lhelp.view.usg.edu/s/>

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 fortune with these skills!
- Please think about how your behavior affects the learning environment and minimize disruptions. For example:
 - If you arrive late or must leave early, use the second-floor doors or carefully close the middle side doors (they are noisy!). Avoid the stage doors after I have started class. THANK YOU!
 - No odorous foods!
- If you miss a lecture, watch the recording in Kaltura before the next lecture period.
- Notetaking is a professional skill that all college students must develop. It is your responsibility to take notes that you can use to study for the exams. I do not share my PowerPoint slides; however, I do record my lectures. You are welcome to prepare your own PPT notes via screen shots of the recordings if this is important to you.
- If I lecture faster than you can listen and write, **not down as much as you can while still being able to follow the lecture,** then use the lecture recording in Kaltura Media Gallery to fill in the rest of your notes after class. **As long as your notes are complete before the next lecture period, and the content knowledge within these notes was comprehended, you will be prepared to learn.**

Device policy. Off-task **laptop/tablet** use is distracting to others in the class, so these devices may be used for notetaking ONLY. Visitors will occasionally enter the room to monitor this policy. One violation is enough for me to ban your Laptop or Tablet. I encourage you to use your **cellphone** for the iClicker app, and to only use your cellphone for this purpose while class is in session. **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!**

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

Non-Discrimination and Title IX Statement Valdosta State University (VSU) upholds all applicable laws and policies regarding discrimination on the basis of race, color, sex (including sexual harassment and pregnancy), sexual orientation, gender identity or expression, national origin, religion, age, veteran status, political affiliation, or disability. The University prohibits specific forms of behavior that violate Title IX of the Education Amendments of 1972. Title IX of the Education Amendments of 1972 prohibits discrimination on the basis of sex in education programs and activities that receive federal funding. VSU considers sex discrimination in any form to be a serious offense. Title IX refers to all forms of sex discrimination committed against others, including but not limited to: sexual harassment, sexual assault, sexual misconduct, and sexual violence by other employees, students or third parties and gender inequity or unfair treatment based on an individual's sex/gender. The designated Title IX Coordinator for VSU is Mr. Darius Thomas. To view the full policy or to report an incident visit: <https://www.valdosta.edu/administration/student-affairs/title-ix/>

Accommodations Statement: Students with disabilities who are experiencing barriers in this course may contact the Access Office (<https://www.valdosta.edu/student/disability/>) for assistance in determining and implementing reasonable accommodations. The Access Office is located in University Center Room 4136 Entrance 5. The phone numbers are 229-245-2498 (V), 229-375-5871. For more information, please visit VSU's Access Office or email: access@valdosta.edu. To request reasonable accommodations for pregnancy and childbirth, contact Christina Kidd, Student Conduct Coordinator at chkidd@valdosta.edu. Please note, you will be required to provide documentation from an appropriately licensed medical professional indicating the requested accommodations are medically necessary.

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: A grade of C or higher may be necessary for your major.

Tentative Lecture Schedule, BIOL 1107K, Section A, Fall 2024

Dates	Subject	Chapters	Homework due 11:59pm on the following dates
Aug 19 Aug 21 Aug 23	Introduction/Syllabus Introduction to life Classification of life & cellular diversity	Introduction 1 1	<i>BV QUIZ Bonus 1</i> (due Fri)
Aug 26 Aug 28 Aug 30	Theory of Biological Evolution Evolution of life on Earth Cellular structure & function	22.1 & 23.1 22.1 & 23.1 4	Achieve HW 1 (due Fri)
Sept 2 Sept 4 Sept 6	<i>Labor Day</i> Cellular structure and function Cellular membrane structure & function	No Class 4 5.1	Achieve HW 2 (due Weds)
Sept 9 Sept 11 Sept 13	EXAM 1 (Ch 1, 22.1, 23.1, 4) Basic chemistry Macromolecule	EXAM 1 2 2	Achieve HW 3 (due Fri)
Sept 16 Sept 18 Sept 20	Macromolecules Macromolecules Cellular transport	3 3 5	Achieve HW 4 (due Weds)
Sept 23 Sept 25 Sept 27	Cellular transport Catch-up or Review EXAM 2 (Ch 2, 3 & 5)	5 Catch-up/Review EXAM 2	Achieve HW 5 (due Mon)
Sept 30 Oct 2 Oct 4	Enzymes & Metabolism Enzymes & Metabolism Enzymes & Metabolism	6 6 6	Achieve HW 6 (due Weds)
Oct 7 Oct 9 Oct 11	Cellular respiration Cellular respiration ----- Midterm is Oct 10 EXAM 3, Part 1 (Ch. 6 & 7)	7 7 EXAM 3 pt 1	Achieve HW 7 (due Weds)
Oct 14 Oct 16 Oct 18	<i>Fall Break</i> Photosynthesis Photosynthesis	No Class 8 8	Achieve HW 8 (due Friday)
Oct 21 Oct 23 Oct 25	Catch-up or Review EXAM 3, Part 2 (Ch. 8) or EXAM 3 (Ch 6, 7 & 8) Genes and Proteins	----- EXAM 3 pt 2 / 3 15	-----
Oct 28 Oct 30 Nov 1	Genes and Proteins Gene Expression ----- Last day to withdraw Gene Expression	15 16 16	Achieve HW 9 (due Weds) <i>BV Quiz Bonus 2</i> (due Fri)
Nov 4 Nov 6 Nov 8	The Cell Cycle – Mitosis & Cytokinesis Sexual Life Cycle – Meiosis & Fertilization DNA Replication	10 11 14	Achieve HW 10 (due Mon) Achieve HW 11 (due Fri)
Nov 11 Nov 13 Nov 15	Catch-up or Review EXAM 4 (Ch 15, 16, 10, 11, 14) Basic Mendelian Genetics	Catch-up/Review EXAM 4 12	
Nov 18 Nov 20 Nov 22	Basic Mendelian Genetics Mutations Mutations	12 14 14	Achieve HW 12 (due Weds)
Nov 25 Nov 27 Nov 29	Cell communication <i>Thanksgiving Break</i> <i>Thanksgiving Break</i>	9 No Class No Class	Achieve HW 13 (due Mon) <i>BV Quiz Bonus 3</i> (due Mon)
Dec 2 Dec 4 Dec 6	Cell communication related to Cancer Cell communication related to Cancer EXAM 5 (Ch.12.1, 15, 7, 11.2 & 11.7)	 EXAM 5	<i>BV Quiz Bonus 4</i> (due Mon)
Dec 9 Dec 11	Bonus make-up opportunity (up to 10pt) – in class only! Cumulative Final Exam (Weds, 8:00-10:00am)	 FINAL EXAM	Bonus make-up (limit 10pt)