

# Valdosta State University, BIOL 1107, Section C (3 credit hr)

## Principles of Biology I – Fall 2021

### Syllabus & Course Policies

For College of Science and Math,  
and some Health Science Majors

Lecture: TR 3:30-4:45 in BC1011

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

Email: [egcantonwine@valdosta.edu](mailto:egcantonwine@valdosta.edu) \* FYI, you are welcome to ask me questions over email, but I may direct you to VoiceThread for the answer. Questions can also be asked privately on VoiceThread. See Office Hours FMI.

Office: BC2031, Phone: 229-333-5337

Office hours: Ask your questions in the “Office Hours” VoiceThread any time or day. I will check and answer ~11am T-F. Face-to-Face Office Hours are W & R 12:30-2:00 in BC2031. I do not schedule appointments during Face-to-Face Office Hours – JUST SHOW UP! *A mask is required to enter my office space.*

Graduate Assistant (GA): Hyun Jae Kang - [hkang@valdosta.edu](mailto:hkang@valdosta.edu) - manages grade entry, participation data & excused absences.

Peer Alliance Learning (PAL) Facilitator: TBA

*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 Technologies License

Print ISBN 1947172514 Biology 2e from OpenStax

Digital ISBN 1947172522 [www.openstax.org/details/books/biology-2e](http://www.openstax.org/details/books/biology-2e)

Integrated into BlazeView

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 (4)	400 (100 each)	~55.5 %	A ≥ 90%
Final Exam	100	~13.9%	B ≥ 80%
Participation Grade	100	~13.9%	C ≥ 70%
Vocabulary Quizzes	80	~11.1%	D ≥ 59%
<u>Big Picture HW</u>	<u>40</u>	<u>~5.5%</u>	<u>F &lt; 59%</u>
Total	720	100%	
Extra Credit	50		

### Estimate your grade using this equation:

BIOL1107 Grade = (average exam grade x 0.6944) + ((# participation days / total # lectures) \* 13.889) + (Vocabulary Quiz Points (highest 8, up to 80pt)) + (Big Picture HW Points, up to 40pt) + (total extra credit points earned, up to 50pt)

**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.

Students who are interested in reviewing their exam &/or improving their exam scores are encouraged to complete an exam review activity (exam wrap) before the next exam. The schedule and location details will be posted to Announcements in BV after the exam date.

**PARTICIPATION GRADE** – Beginning the second week of class, participation will be assessed for every lecture. There are two ways to earn participation credit for the lecture.

Option 1 - You attend lecture, remain on task, earn a clicker grade of 50% or greater\*

Option 2 - You watch the entire lecture recording in Kaltura\*\* and upload your handwritten notes to the “Remote Participation” Assignments Folder in Blazeview (BV) before the next lecture period.

\* For each clicker question, 2pt will be granted for correct answers, 1pt for incorrect answers, and 0pt for non-answers. The number of clicker questions varies per class, but most classes will begin and/or end with an easy question to help boost your grade. If you fail to earn 50% for the clicker grade, you can still earn participation for the day by completing Option 2. If you are using a clicker but do not see a grade in BV, that usually means you have not completed the registration process. You will need to purchase a license (registration) through the TurningTechnologies website to correct the issue. *The license costs \$17.99 for a 6 month license (subscription only, and \$24.99 for a 12 month license (subscription only). Either of these will work. There is a more expensive option, but this includes a clicker device, which is not needed if you own a smartphone.*

\*\* To watch the entire lecture recording, you must watch the lecture from start to finish and stay on the video page. If you move to a different webpage, Kaltura will note your absence, even if the recording is still in progress. If you have any problems accessing Kaltura recordings, see my very first Announcement in BV for common fixes. If that does not work, contact eLearning to solve the issue [229.245.6490](tel:229.245.6490).

Excused Participation. There is no need to contact me or document an absence when Remote Participation (Option 2) can be completed before the next lecture period. If, however, you are unable to complete the

Remote work by the deadline, the due date may be extended with a documented excuse and my approval. Contact me ASAP to document and ask for an approval.

**VOCABULARY QUIZ GRADE** - See the Tentative Schedule for Due Dates. After the first week of class there will be a vocabulary quiz due every Tuesday (by 11:59pm), unless there is an exam on that day, a scheduled day off, i.e. fall break, or a Big Picture HW assignment due. These quizzes will be conducted in BV. To earn a good grade, download the vocabulary list and write out the definitions using your OpenStax Textbook Key Terms definitions (or other reputable resource) BEFORE you attempt the quiz. The vocabulary lists are in the Contents Section of BV. Two quizzes will be dropped, so that only your top 8 quiz scores will count. The Vocabulary Quizzes are worth 80 points, combined (10pt per quiz).

**BIG PICTURE HOME WORK GRADE** - See the Tentative Schedule on the last page of this syllabus for Due Dates. Assignment details will be provided in class and in Announcements on BV. Each assignment will be worth 10pt.

**EXTRA CREDIT** - There are a handful of extra credit assignments that will add up to 50points. All will be assessed through BV. See tentative schedule. FYI, an extra 50 points equates to an extra 7% that can be added to your final percentage grade – over half a letter grade. Do not miss these opportunities!

**CURVE?** – Final grades are automatically curved to the nearest 100<sup>th</sup> of a percent, meaning 89.95 = 90. I will curve more if there are not at least 10% of the class with an A. If this happens, all students will receive the same curve. FYI, most semesters an extra curve is not required.

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## **Communication**

### *You to me*

- Use my VSU email, [egcantonwine@valdosta.edu](mailto:egcantonwine@valdosta.edu) for urgent questions or to report an urgent problem.
- All other questions are best sent to me via VT. I check VT ~11am T-F, and on Mondays & weekends if I have time.

### *Me or TA to you*

- **Blazeview Announcements.** Do not ignore BV announcements from me or the TA. We do our best to keep announcements to a minimum. If you see something from us, it is likely important. If you have a problem, check BV Announcements BEFORE YOU CONTACT ME, as I post solutions to problems there as they come in.
- **VoiceThread (VT).** I provide study help and answer questions on VoiceThread, accessed through BV. If you have any problems using VT, contact eLearning [229.245.6490](tel:229.245.6490)
- **Emails.** The TA and I do not frequently initiate emails to students, so if you seen an email from us it is important. Do not ignore!

**Course Policies, Procedures, & Expectations.** Respect for the learning environment is expected. This means for every lecture you are expected to be prepared, pay attention, take notes that reflect not only what is on the slide but also the gist of what is said, and avoid unnecessary distractions.

**Cellphone, Smart Device, Laptop, Recording Device Policy.** Students are not permitted to record the lecture or take photos of slides, unless I grant permission. You are encouraged to use the Turning Technologies Application with your cell phone in place of a separate clicker device. Cell phones should remain silenced and in clicker mode throughout the entire session. Other devices are allowed ONLY for students who remain on-task.

**Attendance Policy.** Attendance (in person or remote) is not required, but it does improve your grade. See the Participation Grade. I do have two rules regarding attendance.

1. DO NOT COME TO CLASS IF YOU ARE IN QUARANTINE OR FEEL ILL.
2. *DO NOT send your clicker to class with another student so that you can be counted present, or attempt to use your clicker when you are not in the classroom. Photos are taken at the beginning, middle and/or end of class to document who is in the room. If we find that your device was used when you were not present, you will receive a 0 for Participation & an Academic Dishonesty Incident Report will be filed.*

**Academic Integrity.** I follow the Academic Integrity Policy of the University. 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. For more information, refer to [www.valdosta.edu/academics/academic-affairs/academic-honesty-policies-and-procedures.php](http://www.valdosta.edu/academics/academic-affairs/academic-honesty-policies-and-procedures.php)

**Food and drink policy.** Because of Covid-19 restrictions, food is not allowed in the classroom. Drink may be consumed as long as it is done in a safe manner.

**Concealed Carry.** Firearms are not permitted in BIOL 1107 lecture because the course includes some students who are under 18.

**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: [titleix@valdosta.edu](mailto:titleix@valdosta.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](mailto:access@valdosta.edu).

**Important information.**

- A grade of C or higher is required when BIOL1107 is a required course. Otherwise, a D is acceptable.
- Midterm is October 7. Usually that means the last day to withdraw from the course is 1 week later. Contact the Registrar's Office for more information regarding the final withdraw date.

**NEED TECHNICAL ASSISTANCE?**

Reach out to the Center for eLearning to received personalized technical support from Instructional Designers and Technologists:

- Call 229-245-6490
- Email [blazeview@valdosta.edu](mailto:blazeview@valdosta.edu)

When you can't reach the Center for eLearning, contact GeorgiaVIEW for technical support. They are available 24/7, 365 days a year!

- Call 1-888-772-0423

**Tentative Lecture Schedule, BIOL 1107, Section C, FALL 2021**

<b>Dates</b>	<b>Subject</b>	<b>Chapters</b>	<b>HW due by 11:59pm</b>
<b>UNIT 1: WHAT ARE THE TWO MAIN TYPES OF CELLS AND WHY ARE CELLS THE BASIC UNIT OF LIFE?</b>			
Aug 17	Why study cells first?	Introduction	T
Aug 19	Cellular diversity	Ch 1	R - Extra Credit 1 due
Aug 24	Cell structures & function	Ch 4	T - VQ1
Aug 26	Evolution of cells	Ch 22.1 & 23.1	R -
Aug 31	Cellular membrane structure & function	Ch 5.1	T - VQ2
Sept 2	Basic chemistry & Macromolecule Intro	Ch 2	R -
Sept 7	Macromolecules part 1	Ch 3	T - VQ3
Sept 9	Macromolecules part 2	Ch 3	R -----
Sept 14	Catch-up or Review	Catch-up or Review	T - Big Picture HW 1
Sept 16	<b>EXAM 1 (Vocab &amp; Notes from Aug 17-Sept 14)</b>	<b>EXAM 1</b>	R - EXAM
<b>UNIT 2 - HOW DO CELLS DO THEIR JOBS &amp; STAY ALIVE?</b>			
Sept 21	Transport - Passive, Active, Bulk	Ch 5.2-5.4	T - VQ4
Sept 23	Enzymes, & Metabolism	Ch 6	R - Extra Credit 2 due
Sept 28	Cellular respiration	Ch 7	T - VQ5
Sept 30	Cellular respiration & photosynthesis	Ch 8	R -
Oct 5	Catch-up or Review	Catch-up or Review	T - Big Picture HW 2
Oct 7	<b>EXAM 2 (Vocab &amp; Notes from Sept 21-Oct 5)</b>	<b>EXAM 2</b>	R -----
<b>UNIT 3 - WHY ARE GENES SO IMPORTANT &amp; HOW DO CELLS PASS GENES ON TO THE NEXT GENERATION?</b>			
Oct 12	FALL BREAK - No Class	-----	T - Fall Break
Oct 14	Genes and Proteins	Ch 15	R - Extra Credit 3 due
Oct 19	Gene Expression	Ch 16	T - VQ6
Oct 21	The cell cycle - mitosis & cytokinesis	Ch 10	R -
Oct 26	DNA replication	Ch 14	T - VQ7
Oct 28	Sexual life cycle - meiosis	Ch 11	R -----
Nov 2	Mendelian Genetics	Ch 12	T - VQ8
Nov 4	Catch-up or Review	Catch-up or Review	R - Big Picture HW 3
<b>UNIT 4 - HOW DO CELLS CHANGE (FOR BETTER OR WORSE), HOW DO CELLS SENSE THEIR ENVIRONMENT, AND HOW DO CELLS BECOME DISEASED?</b>			
Nov 9	<b>EXAM 3 (Vocab &amp; Notes from Oct 14-Nov 4)</b>	<b>EXAM 3</b>	T - EXAM
Nov 11	Mutations	Ch 14	R - Extra Credit 4 due
Nov 16	Cell to cell communication	Ch 9	T - VQ9
Nov 18	Viruses	Ch 21	R - Extra Credit 5 due
Nov 23	Cancer	Ch 10	T - VQ10
Nov 25	THANKSGIVING BREAK	-----	R - BREAK
Nov 30	Advancing biological knowledge	Ch 1	T - Big Picture HW 4
Dec 2	<b>EXAM 4 (Vocab &amp; Notes from Nov 9-Nov 30)</b>	<b>EXAM 4</b>	R - EXAM
Finals Week	<b>Final Exam - Friday, Dec 10, 2:45-4:45 (Vocab &amp; Notes from Aug 17-Nov30)</b>	<b>F - FINAL EXAM</b>	