

Principles of Biology Lab II - BIOL 1108L (Spring, 2022) Section E (CRN: 24681)

1. Course Information

- Hours of credit: 1
- Lab location and time: Bailey Science Center 1073
- Time: 12:00 pm - 2:50 am, Wednesday

2. Instructor Information

- Instructor name: Dr. Jonghoon Kang
- Instructor contact: BC 2217, 229-333-7140, jkang@valdosta.edu
- Instructor office hours: Wednesday 3:00 PM - 5:00 PM or by appointment

3. Course Description

Required materials

- Laboratory Manual – Grove, T.J. Biology Lab Manual. Great River Learning, ISBN 9781680750201, available from the bookstore or publisher at Great River Learning (GRL). <https://www.greatriverlearning.com/product-details/919> Note: You must register for the online lab manual using the access code from the bookstore or directly with publisher on their website. Students can purchase and register at www.grlcontent.com.
- CliffsNotes Math Review for Standardized Tests 3rd Edition (ISBN-13: 9780544631021)
- BlazeView
- Lab Notebook (Why? There are several reasons that we will talk about)

4. Lab Conduct (Policies)

- Arrive on time. Students who miss **two labs** without an excuse or **three labs total** cannot receive a lab grade above a "D" (60%). Attendance will be recorded using the lab quiz, which will be given the **first 15 minutes** of the lab. So, **please be on time**. In the event that a student misses a lab with an excuse, s/he should email the instructor within 24 hours of the missed lab. Excused absences are usually given for medical emergencies and documentation must be provided; the professor determines whether or not an absence is "excused" or not. Students are still responsible for all lab content even if they received an excused absence.

- No eating or drinking in the lab.

- Students must take care of lab equipment. Notify the professor if something is not working properly or if something breaks during the course of the lab.

- Each student will be assigned a **microscope**. It is the student's responsibility to properly use the microscope. After lab the professor will check each scope to make sure that it was put away properly. Failure to do so will result in one point being subtracted from the student's final lab points. Notify the professor if your microscope is not functioning properly.

- Cell phones are not allowed to be used in lab with the exception of using them as timers or cameras to take pictures of data when necessary.

- Email: Please email me only from a VSU email account. I am unable to respond to emails from non-VSU accounts.

-Academic integrity is the responsibility of all VSU faculty and students. Students are responsible for knowing and abiding by the Academic Integrity Policy as set forth in the Student Code of Conduct and the syllabus. All students are expected to do their own work and to uphold a high standard of academic ethics. **Cheating** (including plagiarism) will not be tolerated. The instructor reserves the right to dismiss you from the course without credit if you are caught cheating. You will be respectful of your instructor and your fellow students at all times, or you will be dismissed from the class and potentially the course.

- **Print out this syllabus and keep it in your lab notebook.**

5. Lab Assignments and Evaluation Policy

Throughout the semester lab assignments will be given. Due dates of these assignments are shown in the lab schedule table in this syllabus.

12 quizzes (120) + Two Lab Practical Tests (200) + 11 Pre-Lab Quizzes (55) + 11 Post-Lab quizzes (55) + Final (100) = 530.

Lab quizzes. There will be a 10-point quiz at the beginning of each lab session, so do not be late for lab! If there is an error with your quiz grade you must contact me on the week the quiz is given, as grades will become final by the following week. If you miss taking quizzes for any reason, there is an opportunity for you to make up them. However, you will get a **credit of 70% of your scores from make-up quizzes** unless you provide me official documents to excuse your failure to take the quizzes at the scheduled time.

Grading criteria

A \geq 90; B \geq 80; C \geq 70; D \geq 60; F $<$ 60

How to study? (The followings are my suggestions)

Quizzes: You need to study the assigned pages of the math book. All quiz questions will be from the book with modifications of using different numbers in questions. Closed book and closed notebook without calculators.

Lab Practical: Most questions will be from the pre-tests and post-tests. Some questions will be from my PowerPoint. **No memorization please.** Of course, if you still want to memorize, that is fine. But I do not recommend it. If you think you need to memorize something, record them in your lab notebooks and you can use your own lab notebooks in taking the Practical tests.

Pre-Lab and post-Lab tests: We will discuss these in lab. But basically you can use any resources. Even you may form a study group to prepare for the exam. But you need to answer all the questions by yourself. If some of the questions looks important, take notes of them in your lab notebooks so that you can use them when you take Lab Practical tests.

Final: All final questions will be from your quizzes with some modifications. Therefore, it is very important to study the math book every week, because it is practically impossible to learn math at the last moment. Close book and close notebooks without calculators.

6. Additional Statements

Accommodations Statement

Students with documented 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. For more information, please visit VSU's Access Office or email: 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 sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, 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 Interim Title IX Coordinator: Ms. Selenseia Holmes, titleix@valdosta.edu, Student Union, Suite 3106, Valdosta State University, Valdosta, Georgia 31698, 229-333-5941. To file a report (not make an inquiry) please visit https://cm.maxient.com/reportingform.php?ValdostaStateUniv&layout_id=7.

Academic Integrity: You know that cheating is a bad thing to do. Students caught cheating will receive a grade of F for the test in question and will be reported to the Dean of Students. You are expected to follow VSU's Academic Integrity Code.

From VSU's Academic Integrity Code (the full code is available at <https://www.valdosta.edu/academics/academic-affairs/academic-honesty-policies-and-procedures.php>)

"Academic integrity is the responsibility of all VSU faculty and students. Faculty members should promote academic integrity by including clear instruction on the components of academic integrity and clearly defining the penalties for cheating and plagiarism in their course syllabi. Students are responsible for knowing and abiding by the Academic Integrity Policy as set forth in the Student Code of Conduct and the faculty members' syllabi. All students are expected to do their own work and to uphold a high standard of academic ethics."

Classroom demeanor or conduct: Every student should make the lecture a comfortable and enjoyable learning experience. Late entry to the class room or leaving early are not desirable behaviors. Common sense should be practiced and expected.

7. TENTATIVE LAB SCHEDULE AND TOPICS

Date	Topic	Assignments
1/12	Syllabus and General Lab Introduction	
1/19	Lab 1 - Introduction to Basic Statistics Math: 85 – 92	
1/26	Lab 7 - Animal Diversity I Math: 92 – 99	Quiz 1
2/2	Lab 8 - Animal Diversity II Math: 99 – 106	Quiz 2
2/9	Lab 9 – Introduction to Animal Tissues Math: 107 – 112	Quiz 3
2/16	Lab 10 – External and Internal Anatomy of the Fetal Pig Math: 113 – 120	Quiz 4
2/23	lab 11 – Sensory Systems Math: 121 – 127	Quiz 5
3/2	Lab 12 – Cardiovascular System Math: 127 – 133	Quiz 6
3/9	Lab Practical #1 Animal Diversity and Physiology Math: 133 – 140	Quiz 7
3/16	<i>Spring Break</i>	
3/23	Lab 2 – Non-vascular plants Math: 140 – 147	Quiz 8
3/30	Lab 3 – Vascular Plants Math: 148 – 154	Quiz 9
4/6	Lab 4 – Plant cells, organs, and growth Math: 154 – 163	Quiz 10
4/13	Lab 5 - Angiosperm Development Math: 163 – 169	Quiz 11
4/20	Lab 6 – Plant Growth Math: 170 – 177	Quiz 12
4/27	Lab Practical #2 – Plant Diversity and Physiology	Final Exam Make-up quizzes

Biology 1108L Section E Pre and Post quiz schedule				
All quizzes open and close at 9:00 AM of the designated date				
Labs	Pre - Quiz		Post - Quiz	
	Open	Close	Open	Close
Lab 7 – Animal Diversity I	Jan 19	Jan 26	Jan 26	Feb 2
Lab 8 - Animal Diversity II	Jan 19	Feb 2	Feb 2	Feb 9
Lab 9 – Intro to Animal Tissues	Jan 19	Feb 9	Feb 9	Feb 16
Lab 10 – External and Internal Anatomy of the Fetal Pig	Jan 19	Feb 16	Feb 16	Feb 23
lab 11 – Sensory Systems	Jan 19	Feb 23	Feb 23	Mar 2
Lab 12 – Cardiovascular System	Jan 19	Mar 2	Mar 2	Mar 9
Lab 2 – Non-vascular plants	Mar 9	Mar 23	Mar 23	Mar 30
Lab – 3 Vascular plants	Mar 9	Mar 30	Mar 30	April 6
Lab 4 – Plant cells, organs, and growth	Mar 9	April 6	April 6	April 13
Lab 5 - Angiosperm Development	Mar 9	April 13	April 13	April 20
Lab 6 – Plant Growth	Mar 9	April 20	April 20	April 27

Why Math?

Because mathematics is fundamental for all science including biology. Second reason is mathematics is an important topic in most standardized exam such as MCAT. <https://students-residents.aamc.org/prepare-mcat-exam/whats-mcat-exam>

Math without a calculator

<https://www.princetonreview.com/med-school-advice/mcat-math>

How to study math?

Self-study. You are required to study one page of the book per day (see the schedule). In the following week you will be tested for the contents.

If you have problems in studying math

Schedule a tutoring appointment with the Academic Support Center. <https://www.valdosta.edu/asc/>

When you sign up, make sure you sign up for an appointment for MATH1111.
If you need further help, see me during my office hours.

Outcome

You will be well prepared with skills in Algebra and you will be ready to study Trigonometry or Precalculus. In addition, you will be better prepared to do research with me.

Important dates

January 13	Registration for spring 2022 ends (11:59pm)
January 18-21	Attendance Verification for VSU courses that begin on January 10
January 21	Attendance Verifications due at 9am
Feb 16-Mar 2	In-progress Grade Entry for full-term VSU courses
March 3	Official Midterm for spring 2022
March 3	Students View In-progress Grades
March 10	Withdrawal Deadline for full-term VSU courses
March 14-18	Spring Break (university open)
May 9	Students View Final Grades in Banner after 5pm