

## **BIOL 1108L, Principles of Biology II Laboratory** **Spring Semester, 2019; Section F & G**

BIOL 1108L F (CRN 24681)    R    9:30 a.m. – 12:20 p.m.  
BIOL 1108L G (CRN 24682)    R    2:00 - 4:50 p.m.

All labs meet in BC 1073

**Instructor:** Dr. Russ Goddard, BC 2090. (Phone 249-2642; or Dept. office 333-5759)

(Office hours: M: 3:00 – 4:30 p.m.; W: 10:00 – 11:30 a.m.)

**Official Contact email:** [rgoddard@valdosta.edu](mailto:rgoddard@valdosta.edu) (Don't expect replies through BlazeView mail)

### **Course Catalog Description:**

BIOL 1108L. Principles of Biology Lab II. 1-3-1.

Prerequisites: BIOL 1107 and 1107L or permission of the instructor. Co-requisite: BIOL 1108. A laboratory course to accompany BIOL 1108, with exercises dealing with anatomy and physiology of plants and animals.

### **Required Materials:**

**Online Laboratory Manual:** Grove, T.J. Biology Lab Manual. Great River Learning.

First time use: <https://www.grtep.com/index.cfm/core/General/index>

**Student Recommended Laboratory Study guide:** Van De Graaff's Photographic Atlas for the Biology Laboratory, 8e. Morton Publishing; ISBN-13: 9781617317651

<https://www.morton-pub.com/catalog/biology/van-de-graaffs-photographic-atlas-biology-laboratory-8e>

**Attendance:** Attendance in this course absolutely is required. Students should be seated at the beginning of class. If you are late, your attendance may not be acknowledged. Additionally, anyone arriving late could miss points from quiz questions (no make-ups!). The student is responsible for all material missed regardless of the reason for absences.

**ABSOLUTELY NO LECTURES OR LABORATORIES CAN BE "MADE UP" due to the scheduling of the multiple sections of this class.** In the event that a student will miss a class, s/he should notify the instructor in writing by email preferably BEFORE the missed class, but as soon as possible. The student will miss any points assessed during the missed class, but penalty points assessed for absences may be waived at the discretion of the instructor for legitimate emergencies that preclude the student's attendance (scheduling conflicts with scheduled doctor's appointments, family events, etc. are NOT legitimate excuses for absence).

**Graded Course Components:** Your final grade is based on your performance in the following course components:

Additional unannounced in-class assignments may count toward the final grade during the semester.

**Laboratory Practicals:** Two lab practicals are given during the course, one on the animal biology labs, and one on the plant biology labs. Each counts 100 points to your final lab grade.

**Miscellaneous Assignments:** During the course, students will be required to complete the online pre- and post-quizzes available in the online laboratory manual adopted by the biology department for this course. These grades, as well as lab attendance, in-lab quiz grades, and various homework assignments are summed and a percentage grade is calculated on a 100% scale. The combined grade will count as 1/3<sup>rd</sup> of your laboratory grade.

**Final grades** are based on a percentage of your cumulative points relative to the total points possible:

Practical 1 (Animals):	100 pts	Guaranteed grade distribution is as follows:
Practical 2 (Plants):	100 pts	A = 90-100%
Misc. Assignments:	100 pts	B = 80-89.9%
Total:	300 pts	C = 70-79.9%
		D = 60-69.9%
		F = ≤ 59.9%

**EXAM SCHEDULE:**

**Mid-term Lab Practical: 12 March 2020**  
**Final Lab Practical: 30 April 2020**  
**Practicals are given during your assigned lab period**

**Notes on grading philosophy:** 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 the professor any problems regarding course information, as they arise.

**Assignments passed in electronically.** When a course assignment is required to be passed in electronically (e.g. in a document format like MS Excel) Dr. Goddard **does not accept shared files (e.g. through OneDrive) unless he has full write privileges.** The purpose of passing these assignments in electronically is so the document can be graded and sent back to the student. Too often, shared files do not allow write privileges to the instructor so the preferred file for turn-in must be in the program format and attached to an email to [rgoddard@valdosta.edu](mailto:rgoddard@valdosta.edu) (Word document in \*.doc or \*.docx format; Excel document in \*.xls or \*.xlsx format). **Any file that Dr. Goddard cannot access or has restricted access for editing will not be graded and that assignment will receive a zero!**

**Student identification.** Students should have in their possession at all times their VSU student identification card. In order to verify the identification of students officially enrolled in the course, it is the instructor's prerogative to request official student photo identification cards at any time during lecture. During examinations, students may be asked to display their VSU student identification cards visibly on the desk top and to make them available for inspection by their instructor and/or assistants.

**Academic Integrity:** Any behavior suggestive of academic dishonesty will lead to a reprimand, failure of an assignment, or failure of the course at the discretion of the instructor, but based on the severity of the infraction(s). Cooperative learning and group interactions are common and necessary to scientists and this activity is encouraged in the form of laboratory work and discussions about data and information. However, on assignments designed to assess individual learning of material in the class or writing and analytical skills, work must be completed totally independently. Behavior contrary to this principle constitutes cheating. Students should fully understand that plagiarism is not tolerated in this department or by the instructor and full appreciation for the intellectual property of others should be respected completely.

Plagiarism is the representation of someone else's work as your own. You may not blatantly copy phrases, paragraphs, or ideas from another's work. You cannot paraphrase someone else's ideas and use them as your own. You must analyze all data and work by others and then integrate this information with new data and conclusions that you independently synthesize, properly citing past work that supports your conclusions.

Students should read and be familiar with the Biology Department policy on plagiarism:

<https://www.valdosta.edu/colleges/arts-sciences/biology/documents/resources/PlagiarismPolicy.pdf> and read and understand the University policy on Academic Integrity:  
<https://www.valdosta.edu/academics/academic-affairs/academic-honesty-policies-and-procedures.php>

**Disruptive behavior:** No disruptive behavior of any kind will be tolerated in this course. Students should restrict talking and discussion to pertinent questions related to course material and these questions usually should be directed toward the instructor. Entering a classroom late is discouraged, particularly from the front of the room, because it is disruptive, as is leaving early. Any student disrupting the laboratory will be required to leave the classroom. Use of cellular telephones or any similar remote communication device is prohibited during scheduled laboratories or examinations. If students bring cellular telephones or similar devices to lecture, it is their responsibility to switch them off prior to the beginning of the lecture period. Ringing, buzzing, or any other sounds emitted from such devices will be treated as disruptive behavior on the part of the owner/possessor, and the owner/possessor will be asked to leave the class immediately (including 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, as positive identification cannot be made by this manner.

**Students with Disabilities:** 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) and 229-375-5871 (VP). For more information, please visit <http://www.valdosta.edu/access> or email: [access@valdosta.edu](mailto:access@valdosta.edu).

**Tentative Lecture and Lab schedule (subject to revision):**

<b>Laboratory:</b>	
<b>Date (Week of):</b>	<b>Exercise</b>
13 Jan.	<b>Intro. to lab, microscopes, safety</b> <b>Introduction to Basic Statistics</b> Independent Lab Assignment: "How to Use Excel"
20 Jan.	<b>MLK Holiday; No labs scheduled/ check with your instructor</b>
27 Jan.	Lab 7. Diversity of Porifera, Cnidaria, Platyhelminthes, and Annelida
3 Feb.	Lab 8. Diversity of Mollusca, Nematoda, Arthropoda, Echinodermata, and Chordata
10 Feb.	Lab 9. Introduction to Animal Tissues
17 Feb.	Lab 10. External and Internal Anatomy of the Fetal Pig
24 Feb.	Lab 11. Sensory Systems
2 March	Lab 12. Cardiovascular System
9 March	<b>Midterm Lab Practical</b>
16 March	<b>No Labs, Spring Break</b>
23 March	Lab 2. Nonvascular, Seedless Plants: Mosses, Liverworts, and Hornworts
30 March	Lab 3. Vascular Plants: Ferns, Gymnosperms and Angiosperms
6 April	Lab 4. Plant Cells, Vegetative Organ Structures, and Patterns of Growth
13 April	Lab 5. Angiosperm Development
20 April	Lab 6. Growth and Transpiration
27 April	<b>Final Lab Practical</b>

**Pre- and Post-Lab Quiz times**

<b>Lab:</b>	<b>Pre-Lab open; All Sections</b>	<b>Pre-lab close</b>		<b>Post-lab open</b>		<b>Post-lab close; All Sections</b>
		<b>Section F</b>	<b>Section G</b>	<b>Section A</b>	<b>Section B</b>	
Lab 7: Porifera, etc.	13 Jan. 2020 8:00 a.m.	Thurs., 30 Jan. 9:30 a.m.	Thurs., 30 Jan. 2:00 p.m.	Thurs., 30 Jan. 12:30 p.m.	Thurs., 30 Jan. 5:00 p.m.	Mon., 3 Feb. 8:00 a.m.
Lab 8: Mollusca, etc.	13 Jan. 2020 8:00 a.m.	Thurs., 6 Feb. 9:30 a.m.	Thurs., 6 Feb. 2:00 p.m.	Thurs., 6 Feb. 12:30 p.m.	Thurs., 6 Feb. 5:00 p.m.	Mon., 10 Feb. 8:00 a.m.
Lab 9: Animal Tissues	13 Jan. 2020 8:00 a.m.	Thurs., 13 Feb. 9:30 a.m.	Thurs., 13 Feb. 2:00 p.m.	Thurs., 13 Feb. 12:30 p.m.	Thurs., 13 Feb. 5:00 p.m.	Mon., 17 Feb. 8:00 a.m.
Lab 10: Fetal Pig	13 Jan. 2020 8:00 a.m.	Thurs., 20 Feb. 9:30 a.m.	Thurs., 20 Feb. 2:00 p.m.	Thurs., 20 Feb. 12:30 p.m.	Thurs., 20 Feb. 5:00 p.m.	Mon., 24 Feb. 8:00 a.m.
Lab 11: Sensory Systems	13 Jan. 2020 8:00 a.m.	Thurs., 27 Feb. 9:30 a.m.	Thurs., 27 Feb. 2:00 p.m.	Thurs., 27 Feb. 12:30 p.m.	Thurs., 27 Feb. 5:00 p.m.	Mon., 2 Mar. 8:00 a.m.
Lab 12: Cardio-vascular System	13 Jan. 2020 8:00 a.m.	Thurs., 5 March 9:30 a.m.	Thurs., 5 March 2:00 p.m.	In class post quiz	In class post quiz	
Lab 2: Nonvascular Plants	16 March 2020 8:00 a.m.	Thurs., 26 March 9:30 a.m.	Thurs., 26 March 2:00 p.m.	Thurs., 26 March 12:30 p.m.	Thurs., 26 March 5:00 p.m.	Mon., 30 Mar. 8:00 a.m.
Lab 3: Vascular Plants	16 March 2020 8:00 a.m.	Thurs., 2 April 9:30 a.m.	Thurs., 2 April 2:00 p.m.	Thurs., 2 April 12:30 p.m.	Thurs., 2 April 5:00 p.m.	Mon., 6 April 8:00 a.m.
Lab 4: Plant Cells	16 March 2020 8:00 a.m.	Thurs., 9 April 9:30 a.m.	Thurs., 9 April 2:00 p.m.	Thurs., 9 April 12:30 p.m.	Thurs., 9 April 5:00 p.m.	Mon., 13 April 8:00 a.m.
Lab 5: Angiosperm Dev't	16 March 2020 8:00 a.m.	Thurs., 16 April 9:30 a.m.	Thurs., 16 April 2:00 p.m.	Thurs., 16 April 12:30 p.m.	Thurs., 16 April 5:00 p.m.	Mon., 20 April 8:00 a.m.
Lab 6: Plant Growth and transpiration	16 March 2020 8:00 a.m.	Thurs., 23 April 9:30 a.m.	Thurs., 23 April 2:00 p.m.	Thurs., 23 April 12:30 p.m.	Thurs., 23 April 5:00 p.m.	Mon., 27 April 8:00 a.m.