

BIOL 1107K, Principles of Biology I
Summer Semester, 2019; May 16, 2019; Jun 20, 2019; Section A

Lecture (BC 2022; CRN 50697): MTWRF 9:35 am - 11:05 am
Laboratory (BC 1083): MTR 11:30 am - 2:20 pm

Instructor: Dr. Russ Goddard, BC 2090. (Phone 249-2642; or Dept. office 333-5759)
(Office hours: Generally available before and after class times)
Official Contact email: rgoddard@valdosta.edu

Course Catalog Description: BIOL 1107K Principles of Biology I; 3-3-4; Co-requisite for biology majors: BIOL 1100. 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.

Required Materials:

Text: Sadava, D., D.M. Hillis, H.C. Heller, and M.R. Bebaum. 2016. Life: The Science of Biologyth11 edition. Sinauer Associates, Sunderland, MA.

(<https://www.macmillanlearn.com> reproduction, gene structure and function, genetics, and

principles of all life. The goal of this course is to stimulate student learning of these basic
age contemplation of the significance of each concept to the complexity of life.

Attendance: Attendance in this course absolutely is required. Students should be seated at the beginning of class. Arriving late disrupts class and the student may be asked to leave. The student is responsible for all material missed regardless of the reason for absence. **ABSOLUTELY NO LECTURES OR LABORATORIES CAN BE "MADE UP."** Laboratories in particular are important not to miss. In the event that a student will miss a class, s/he should notify the instructor in writing by email BEFORE the missed class. Students should be advised that any points assessed during the missed class will be forfeit.

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

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

Lecture (500 pts): There will be 4 lectures, exams and a comprehensive final exam. Each exam is 100 pts. Students are required to know the lecture material and the readings from the text. Information presented in the laboratory may also be included in these exams.

and clarify with the professor any problems regarding course confirmation, as they arise.

MAKE-UP EXAMS: The exam schedule is posted below. It is assumed that because students are registered for this course at the scheduled time and exams are given during this time, all students will be able to attend. Additionally, since one exam grade is dropped, absolutely no make-up exams are given. If you cannot make it to a test at the assigned time for ANY reason, your exam grade will be zero and this will be the grade that is dropped in the computation of your final grade. In no circumstance should a student registered for this course miss two exams. If you know you will miss more than one exam time, you should

14	5 June	Cellular Respiration	172 – 192	4 June	Exercise 6 Protein extraction from biological tissues and determination of total protein, Spectrophotometry and Standard Curves
15	6 June				
16	7 June	Photosynthesis	193 – 212	6 June	Exercise 7. Enzymology Lab: basics of -amylase activity;
17	10 June	Cell Division Cycle, Mitosis, Meiosis, Sexual life histories	213 – 239	10 June	Exercise 8 Enzyme Regulation: "Investigation of the effects of