

Valdosta State University, BIOL 1107K, Sections A-G (4 Credit Hours)
Principles of Biology I FALL 2015
Syllabus & Course Policies

Lecture: BC 1011 ó MWF, 8:00-8:50

Lecture Instructor: Dr. Emily Cantonwine (Dr. Cantonwine) Office: BC 2031 Phone: (229) 333-5337

Email: egcantonwine@valdosta.edu

Office hours: Mondays 10-2 and Fridays 9:30-12. *Just show-up.*

Graduate Assistant (GA): Lorraine Dawkins

Embedded Tutors: TBA

Lab Sections: BC 1085 ó A - M 9-11:50 Dr. Chambers; B - M 1-3:50 Dr. Chambers; C - T 9:30-12:20 Dr. Reece; D - W 10-12:50 Dr. Cantonwine; E - W 1-3:50 Dr. Chambers; F - R 9:30-12:20 Dr. Reece; G - R 1-3:50 Dr. Calestani

Welcome to Principles of Biology I. This is the first course in a series designed to help you develop a strong foundation in the biological sciences to build on throughout your studies at VSU and beyond.

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 1100 is a co-requisite for Freshman Biology majors.

Required Resources:

Biology by OpenStax College.

Turning Technologies Clicker NXT

R.H. Goddard. 2011. *Methods and Investigations in Basic Biology*. Sixth Edition. Hayden-McNeil Publishing, Plymouth, MI. (Lab manual)

Learning Goal

Students will demonstrate understanding of the physical universe and the nature of science, and they will use scientific methods and/or mathematical reasoning and concepts to solve problems.

Course Objectives and Outcomes (refer to Outcome section at end of syllabus for more information)

By the end of this course, students will be able to

- 1) answer questions that demonstrate an understanding of fundamental concepts of biology, including the scientific method and experimental design; cellular structure, function, metabolism, and reproduction; the nature of the gene and its action; and the mechanisms of evolution (GEO 5; BEO 1-4)
- 2) perform a variety of standard lab techniques used in biological research (GEO 5)
- 3) use critical thinking skills and written communication skills to present the results and conclusions of data collected in the lab in standard scientific writing format (GEO 4 & 7; BEO 1)

Assessments:

Lecture (75% of final grade)

Lecture grade

7 of 8 - the lowest of these grades will be dropped

Unit Exams (5)

Cumulative Final Exam (1)

Pooled Clicker Grade (1)

Average Blazeview quiz grade (1)

Points

100 each

100

100

100

SCALE

C"x":202'

D"x":202'

E"x"9202'

F"x"8202'

H"Ö"7;0;;'

Total possible pts = 700 after lowest grade is dropped

Lab (25% of final grade)

Refer to your lab syllabus for assessment details

Explanation of Lecture Assessments:

Unit Exams. A percentage score will be determined for each unit exam. There are no make-up exams, regardless of excuse. If you miss an exam, this will be the grade that is dropped. Students may not take exams early, with the

General Rules:

Attendance Policy. Attendance is not required in lecture. The attendance policy in the laboratory is per the discretion of the laboratory instructor and may significantly impact your potential grade. Refer to the lab syllabus for details.

Assigned seats. Assigned seats will be used (beginning the second or third week of class) to keep track of student attendance for the purpose of monitoring clicker usage. **You are welcome to**

