Valdosta State University, BIOL 1107K, Sections G-L (4 Credit Hours) Principles of Biology I ±FALL 2014 Syllabus & Course Policies

Lecture: BC 1011 ±Mondays, Wednesdays, & Fridays ±8:00-8:50

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

 Email:
 egcantonwine@valdosta.edu
 Office hours:
 Mondays & Wednesdays 11-2 (you may just show up or sign-up for a time on my office door; please do not email me to make an appointment).
 Phone: (229) 333-5337

Graduate Assistant (GA): See Blazeview for details

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 bu41 for

Freshman Biology majors.

<u>Learning Goal</u> Students will demonstrate understanding of the physical universehe2)

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) x Lecture grade

Lecture grade	SCALE		
7 of 8 - the lo	west of these grades will be dropped	Points Points	\$•
o Unit I	Exams (5)	100 each	%•
o Cumu	lative Final Exam (1)	100	& •
o Poole	d Clicker Grade (1)		

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 may change seats (temporarily or permanently) during the semester, but it is your responsibility to inform the graduate assistant of this change <u>prior</u> to making the move; otherwise, your pooled clicker grade may be dropped if you are counted absent but your clicker is detected!

Lecture Notes. Powerpoint slides with fill-in blanks will be provided for printing at least 48-hours before the lecture (beginning the second week of class). Students are expected to print the slides and fill in the blanks during lecture.

Student conduct

- ± Arriveon time and have all the materials you ne@endcluding your clicken/when class begins.
- ± Your full attention should be on the course material. This is not possible please be respectful of your fellow students by not being disruptive.
- ± You do not need my permission to leave class early. Please do sdeashelisruptive way
- ± Disruptive students may basked to leave the classroom. I consider listening tusim, surfing the internet, obvioustexting, and talking to your neighbor while material is being presented be disruptive.

Food and Drink

± Drinks and snacks are allowighthe lecture halas long as their consumption and storage are not a disturbance to yourself or other students. Estudentmust cleanup after him or herself, otherwise, this privilege will revoked. Drinks and snacks are not allowed in lab!

Electronic Devices

- ± Bring your clicker to lecture every da Qlickers will not be used in laburaness otherwise stated by you lab instructor
- ± Turnoff your cell phoneduring class!
- ± Turn off your MP3 player and

Tentative Lecture Schedul BIOL1107K, Sections G-L, Fall 2014

Week	Subject	Chapters	Dueon the due
Aug 18	What is Biology? The cell theory; Main types of ce & organisms	1.1, 1.2	date by8am Vocabulary Practice qui ż Due Aug 25
Aug 25	Cells: structure & function	5	Practice quizl Due Weds Sept 3
Sept 1	Labor day, no class (Sept C)ells: structure & function; EXAM 1 (Sept 5	5	Vocabulary II Due Sept 8
Sept 8	Cellular membrane structure & function; lipids;	6.1, 3.4	VocabularyIII Practice qui ż II Due Sept15
Sept 15	Proteins; covalent, hydrogen, & ionic bonds; chemisty of hydrophilic molecules; condensation reaction	3.1, 3.2, 3.3, 2.2	VocabularylV, Practice qui ż V Due Sept22
Sept 22	Membrane transport	6.3-6.5	
Sept 29	EXAM 2 (Sept 299 Energy, Enzymes, & Metabolism	8	Vocabulary V Practice qui≵/ DueOct 6
Oct 6	Carbohydrates; hyddrysis reaction; Pathways that harvest chemical energy	8, 3.1, 9	Vocabulary VI Practice qui≵/I DueOct 13
Oct 13	Pathways that harvest chemical energy; photosynthesis	9, 10	Vocabulary VII Practice qui≵/II DueOct 20
Oct 20	Photosynthesis; Nucleic acjdEsxam 3 (October 25)	10; 4	VocabularyVIII DueOct 27
Oct 27	DNA and its role in heredity; From DNA to protein	13.2, 14	Practice quiž/III DueNov 3
Nov 3	From DNA to protein; The cell cycle; DNA replicati	14, 11 13.3	Vocabulary IX Due WedsNov 12
Nov 10	Exam 4 (Nov 1)0 Inheritance, genes, and chromosomes	12	Vocabulary X Practice qui ż X DueNov 17
Nov 17	Gene		

Valdosta State University General Educational Outcomes (GEO)

- 1. Students will demonstrate understanding of the society of the United States and its ideals.
- 2. Students will demonstrate cross-cultural perspectives and knowledge of other societies.
- 3. Students will use computer and information technology when appropriate.
- 4. Students will express themselves clearly, logically and precisely in writing and in speaking, and they will demonstrate competence in reading and listening.
- 5. Students will demonstrate knowledge of scientific and mathematical principles and proficiency in laboratory practices.
- 6. Students will demonstrate knowledge of diverse cultural heritages in the arts, the humanities, and the social sciences.
- 7. Students will demonstrate the ability to analyze, to evaluate, and to make inferences from oral, written and visual materials.
- 8. Students will demonstrate knowledge of principles of ethics and their employment in the analysis and resolution of moral problems.

Department of Biology Educational Outcomes (BEO)

- 1. Develop and test hypotheses, collect and analyze data, and present the results and conclusions in both written and oral format used in peer-reviewed journals and at scientific meetings.
- 2. Describe the evolutionary process responsible for biological diversity, explain the phylogenetic relationships among the other taxa of life, and provide illustrative examples.
- 3. Demonstrate an understanding of the cellular basis of life.
- 4. Relate the structure and function of DNA/RNA to the development of form and function of the organism and to heredity
- 5. Interpret ecological data pertaining to the behavior of the individual organism in its natural environment; to the structure and function of populations, communities, and ecosystems; and to human impacts on these systems and the environment.