

# BSC 1010: BIOLOGICAL SCIENCE

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**CONTENT:** The major goal of the course is to provide the student with a working knowledge of basic biological systems. The emphasis is on the units of chemistry, the cell and its function, the gene and chromosomes, photosynthesis, respiration and gene regulation.

**TEXT:** *Campbell Biology* by Reece, Urry, et.al 9<sup>th</sup> edition, 2011.

**COREQUISITE:** BSC 1010L

**EXAMINATIONS:** There will be routine examinations given throughout the course, covering units of material. These will be multiple choice, and will require a scantron sheet and a pencil. The test dates are indicated in the syllabus. You must take all tests. If you miss an examination you must schedule and complete a make-up exam before the next class meeting. If the test is not taken at this time a zero will be awarded. Exceptions will be granted only if the instructor concurs that unusual and mitigating circumstances have existed. If allowed to take a different test, 10 points will be deducted from the grade.

**If an exam is missed you must make an appointment with the test center 24 hours in advance and the test needs to be taken before the next class meeting.**

**During lectures and exams please have cellular devices turned off and confined (e.g. put in purse, pocket, etc.)** If taking a test with a proctor, cell phones will be given to proctor until after the test.

Cheating/Plagiarism will not be tolerated. Punishment will be up to the teacher's discretion.

**Research Paper:** In order to complete this course a 1,500 word paper must be submitted. This will count as a test grade. A handout on the guidelines to follow on writing the paper will be given to you.

**GRADING:** The final grade will be calculated by the student's total points on the exams divided by the instructor's total points on the exam. Multiplying times one-hundred will give a percent. The grading scale is as follows:

90% - 100% = A

80% - 89% = B

70% - 79% = C

60% - 69% = D

Below 60% = F

**ATTENDANCE:** Attendance will be taken each class period. Information will be given in the classroom that the student is responsible for; therefore, class attendance is very important.

**Request for Accommodations:** If to participate in this course you require an accommodation due to a physical or learning impairment, you must contact the Office of Services to Students with Disabilities.

**Withdrawal Date:** March 26<sup>th</sup>, 2012.

<b>DATE</b>	<b>TOPIC</b>	<b>CHAPTER</b>
January 9	Introduction: Themes in the Study of Life	1
January 11	The Chemical Context of Life	2
January 18	Water and Life	3
January 23	Carbon and the Molecular Diversity of Life	4
January 25	The Structure and Function of Macromolecules	5
January 30	<b>TEST I</b>	
February 1, & 6	A Tour of the Cell	6
February 8, & 13	Membrane Structure and Function	7
February 15	Cell Communication	11
February 22	<b>TEST II</b>	
February 27 & 29	An Introduction to Metabolism	8
March 5 & 7	Photosynthesis	10
March 12	Cellular Respiration and Fermentation	9
March 14	<b>TEST III</b>	
March 26	The Cell Cycle	12
March 28	Meiosis and Sexual Life Cycles	13
April 2	Mendel and the Gene Idea	14
April 4	The Chromosome Basis of Inheritance	15
April 9	The Molecular Basis of Inheritance From Gene to Protein	16 17
April 11	<b>TEST IV</b>	
April 16, & 18	Regulation of Gene Expression	18
April 23, & 25	Biotechnology	20
April 30	Genomes and Their Evolution	21

May 2

**TEST V**