

Note: The following learning objectives are meant to represent a general overview of the General Biology (BSC 1005) and by no means are to be used as an all inclusive study guide. Requisites for this course include **all** assigned readings, handouts, written assignments, movies and lectures as well as any extra projects. Students are responsible for **all** the assigned materials regardless of whether or not said materials have been specifically covered or addressed during class. As always, students with questions regarding assignments, whether covered in class or not, are welcome to come to my office during office hours, or by appointment, or may e-mail at arodrigu@broward.edu their questions to me and I will respond in a timely manner.

1. Define the first and second law of thermodynamics
2. List the function of enzymes
3. Define:
 - a. Oxidation
 - b. Reduction
 - c. Metabolism
 - d. Osmosis
 - e. Diffusion
 - f. Catabolism
 - g. Anabolism
 - h. Exergonic and endergonic
4. List the components and functions of the:
 - a. Chloroplast
 - b. Mitochondria
5. List the steps and product produce during:
 - a. Photosynthesis
 - b. Respiration
6. List the number of ATP produce during:
 - a. Aerobic Respiration
 - b. Anaerobic Fermentation
7. List the changes that take place on the cell when exposed to different solute concentrations.
8. Contrast kinetic energy and potential energy
9. Define ATP and its importance for the cell
10. List the ways that cell move molecules in and out of the cell.
11. Define the following terms:
 - a. Haploid
 - b. Diploid
 - c. Homozygous
 - d. Heterozygous
 - e. Dominant
 - f. Recessive
 - g. F1 generation
 - h. F2 generation
 - i. Alleles
 - j. Genotype
 - k. Phenotype
 - l. Codominant
 - m. Sex linked chromosomes
 - n. Law of segregation
 - o. Law of independent assortment
 - p. Karyotype
 - q. Mutation
 - r. Trisomy