

West Los Angeles College

SLO Addendum

Course Name and Number BIOLOGY 006

Course Title GENERAL BIOLOGY I

Course Objectives (as stated in the Course Outline of Record)

1. Solve metric conversion; solve English metric conversions; measure quantities and report them with accuracy and precision; define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from different topics.
2. Define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from meaning of science, scientific method, history of science.
3. Define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from atomic structure, quantum mechanics, ions and ionic compounds, acids and bases, covalent compounds, bond number, oxidation state, polarity, hybrid orbitals, water.
4. Define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from polymerism, anhydro bonds, carbohydrate structure and function, lipid structure and function, protein structure and function, nucleic acid structure and function.
5. Define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from cell theory, prokaryotic cell structure and function, eukaryotic cell structure and function, plasma membrane structure and function, active transport, passive transport, intercellular structures and environments, cellular communication, eukaryotic organelle structure and function, endomembrane system examples, contrasts between plant and animal cells.
6. Define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from chemical reactions, energy, laws of thermodynamics, equilibrium, reaction rates, enzymes, ATP, NAD, FAD, NADP, oxidation/reduction.
7. Define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from photosynthesis including characteristics of light, characteristics of chlorophyll, cyclic photophosphorylation, noncyclic photophosphorylation (light dependent reactions), Calvin Cycle, C4 photosynthesis, biosynthesis of proteins and lipids in plants.
8. Define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from cellular respiration including chemiosmotic phosphorylation, glycolysis, pyruvic acid oxidation, Krebs' Cycle, oxidative phosphorylation, ATP generation, anaerobic cellular respiration.

9. Define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from DNA including DNA history, structure, replication, and control.

10. Define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from protein synthesis including transcription, translation, and cellular control.

11. Examine characteristics; operate equipment; sketch and label characteristics of objects observed; define terms; recall details; recall, discuss, interpret, apply, compare, contrast, and evaluate concepts; and synthesize information from different topics.

<p align="center"><u>Course SLO</u></p> <p>One sentence that describes a major piece of knowledge, skill, or ability that students can demonstrate by the end of the course</p> <p><i>Finish the sentence, "At end of the course, the successful student will be able to..."</i></p>	<p align="center"><u>Assessment Method</u></p> <p>Major assignment, project or test used to demonstrate or apply outcome</p> <p><i>Remember to have a mix of qualitative and quantitative assessment methods.</i></p>	<p align="center"><u>Criterion Level</u></p> <p>Reflects satisfactory performance on the SLO</p> <ul style="list-style-type: none"> • <i>At least X percent of students achieve this course SLO.</i> • <i>All students achieve at least the Y level on this SLO.</i> • <i>At least X percent of students achieve the Y level on this course SLO.</i>
<p>1. Discuss and evaluate concepts of protein synthesis including transcription, translation and cellular control.</p>	<p>Assessed with multiple choice, short answer and essay types of questions; plus completion of a laboratory notebook.</p>	<p>70% of the students should score 75% or better.</p>
<p>2.</p>		
<p>3.</p>		
<p>4.</p>		

