

General Biology II BIOL151 Course Outcome Guide (COG)

Course:	BIOL 151 General Biology II	Credits:	4	Date Updated	April 2016
Course Description:	A two-semester sequenced study of the fundamental topics of biology. Emphasis on organismal biology. Topics include animal structure and physiology, including unity and diversity of animal systems, overview of human systems, plant structure and physiology including unity and diversity of plant systems, evolution, and ecology. 1. Describe the unity and diversity of life, including structure and function and how this relates to the environment. 2. Describe how life (or life forms) has (have) changed and adapted over time. 3. Understand basic evolution and evolutionary processes. 4. Develop an understanding of ecology. Co-requisite BIOL 151L General Biology II Lab				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
1. Chemistry of Life Including Atoms Molecules Bonding 2. Cell Biology Structure and Function Eukaryotic Prokaryotic 3. Classification and Taxonomy. Domains and Monera, Protista, Fungi, Plant and Animal kingdoms. 3. Human Systems Structure and Function including	Study effectively Use scientific instruments safely and appropriately including microscopes and scalpels. Know Atomic structure, bonding, Molecular Structure and how this leads to chemical properties and biological functions. Know the role of biological molecules in living organisms. Know and identify the components of cells and explain their functions. Understand the relationship between cell structure and function.	1. Complete assignments of readings and worksheets, lab worksheets("portfolio"), term paper, study guides, movies and worksheets. 2. Lecture and lab quizzes. 3. Lecture and lab exams with objective and subjective questions. . 4. Lab attendance and participation.	1. Demonstrate the safe appropriate use of scientific instruments such as a microscope and scalpel . 2. Differentiate factual information from opinion and pseudo-science by practicing methods used by biological scientists 3. Practice the application of biological information to solve problems and in life (personal and professional).	1. Students will use reasoning skills to analyze and solve problems. 2. Students will apply health-related knowledge to physical and mental well-being.	1. Students will use reasoning skills to analyze and solve problems. 2. Students will apply health-related knowledge to physical and mental well-being.

<p>tissues.</p> <p>4. Ecology and selected Biomes: Marine Prairie</p> <p>5. Evolution</p>	<p>Describe the processes by which materials are transported across cell membranes</p> <p>Identify and classify organisms.</p> <p>Describe, identify structures, explain functions and list examples of viruses, bacterial, fungi, Protista plants and animals. Relate structure to function in the habitat.</p> <p>Describe common diseases/disorders of the human body.</p> <p>Describe the components, structure and function of each human system.</p> <p>Discuss the basic ecology concepts.</p> <p>Describe the Marine, and Prairie ecosystems. Recognize and describe common organisms found in each and their uses. Be able to classify the organisms. Describe how their structure</p>		<p>4. Practice the application of biological information in upper level classes</p>		
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	<p>relates to the function in their habitat.</p> <p>Integrate the process of evolution in the development and adaptation of living organisms.</p>				
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