BIOL1122 - General Biology I

Credits:	4 (3/1/0)
Description:	Meets MnTC Goal Areas 2 and 3. This course is an introduction to the structure and function of living systems with an emphasis on cellular and molecular biology. Fundamental concepts include the chemical basis of life, cell structure and function, cell division, metabolism, classical and molecular genetics, and biotechnology. This course includes a laboratory component incorporating experimental design, microscopic work, and cellular and molecular biology techniques. Along with BIOL1123, this course is part of a two-semester sequence of general biology that can be taken in any order.
Prerequisites:	• Assessment into ENGL 1101 or college level writing equivalent.
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Understand and apply knowledge of biochemistry, general cell structure and physiology, metabolism, genetics and evolution. 2. Recall, explain and apply concepts, knowledge and vocabulary of biology at the level necessary for success in subsequent biology courses for science majors. 3. Demonstrate an understanding of scientific theories in biology. 4. Demonstrate quantitative reasoning skills at a level appropriate for subsequent biology courses for science majors. 5. Formulate and test hypotheses by performing laboratory experiments in biology that include collection of data, statistical analysis, graphical presentation of results, and interpretation of sources of error and uncertainty. 6. Communicate experimental findings both orally and in writing. 7. Understand and apply knowledge of use of the microscope and other biological laboratory equipment, and apply that knowledge in the proper conduct and interpretation of laboratory investigations.
MnTC goal areas:	2. Critical Thinking 3. Natural Sciences

**Can be taking as a Prerequisite or Corequisite.*

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