**COURSE: BIOL XXXX- Introduction to Biology I, non-science majors**

**COURSE DESCRIPTION:** BIOL XXXX is designed to expose students to broad biological principles for non-science majors. Topics include scientific method; biological molecules; cell structure and function; genetics and evolution.

## LEARNING OUTCOMES:

1. Explain and apply the scientific method.
2. Analyze the characteristics and properties of life.

3. Explain the structure of atoms and how they form chemical bonds.

4. List the four macromolecules, describe each and explain their function/importance.

5. Name all major parts and their functions of a typical cell.

6. Explain the steps of cellular respiration and photosynthesis, as well as purposes.

7. Compare/contrast the different types of cell division and explain why we need different types of cell

division.

8. Describe the different types of genetic inheritance and give examples.

9. Explain the structure/function of DNA

10. Explain the process of protein synthesis.

11. Explain how technology has affected biological advances.