

**Course Title & Number:** \_\_\_\_\_ Human Biology Bio\*H115 \_\_\_\_\_

**Competency Area:** **SCIENTIFIC KNOWLEDGE / UNDERSTANDING** (Goal: Students will gain a broad base of scientific knowledge and methodologies in the natural sciences. This will enable them to develop scientific literacy, the knowledge and understanding of scientific concepts and processes essential for personal decision making and understanding scientific issues.)

**Faculty submitting the Learning Outcomes:** \_\_\_\_\_ Rachel E. Sackett \_\_\_\_\_

**Date:** \_\_\_\_\_ 3/6/2013 \_\_\_\_\_

**[Instructions:** *Please match the Learning Outcomes in the left hand column to those of the course you are submitting for Gen Ed approval. List the corresponding course outcomes in the right hand column to indicate a match.***]**

BOR TAP's Learning Outcomes	Corresponding Outcomes for Course Named Above
1. Communicate using appropriate scientific terminology.	Define and explain various terms and concepts in biology (such as homeostasis, cell, prokaryote, eukaryote, taxonomy, evolution, genotype/phenotype, etc.) as well as give examples of these concepts.
2. Use representations and models to communicate scientific knowledge and solve scientific problems.	Use Punnett squares as models to predict potential inheritance outcomes Use chemistry models to construct various molecules when given chemical formulas to demonstrate how atoms are stabilized by forming bonds Use phenotypic evidence to predict possible genotypes in various plant and animal models
3. Plan and implement data collection strategies appropriate to a particular scientific question.	Apply the steps of the scientific method through developing hypotheses and executing experiments during laboratory Determine the effect of various pollutants on ecosystem composition
4. Articulate the reasons that scientific explanations and theories are refined or replaced.	Define the term evolution, give examples of evidence which supports evolutionary theory and discuss how previous thoughts were changed through experimentation and data collection
5. Evaluate the quality of scientific information on the basis of its source and the methods used to generate it.	Evaluate electronic data bases, websites and publications to demonstrate an understanding of the quality of scientific information. Use those approved resources to conduct research to explain the anatomy and physiology of the organ systems of the human body; including discussion on an infectious disease, disorder and cancer which

	affects each system
	<b><i>Additional Outcomes</i></b>