

Course Title & Number: Anatomy and Physiology I BIO*211

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: David Mullaney **Date:** September 30, 2014

[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.	Use proper terminology to describe various anatomical parts and various positional relationships of the human body.
2. Use representations and models to communicate scientific knowledge and solve scientific problems.	Use structural models to describe the relationship between various chemical entities important for demonstrating understanding of human physiology, and use structural models to predict and explain solutions to specific scientific problems of a chemical nature.
3. Plan and implement data collection strategies appropriate to a particular scientific question.	Analyze an experimental design and modify the design to solve a scientific question and demonstrate a scientific principle.
4. Articulate the reasons that scientific explanations and theories are refined or replaced.	Explain the development and change in understanding of a particular area of medical scientific knowledge that has resulted from scientific exploration.
5. Evaluate the quality of scientific information on the basis of its source and the methods used to generate it.	Compare and contrast the types of scientific information obtained by use of different scientific tools or methods, and evaluate the conclusions that can be drawn from the investigative approaches.
	Additional Outcomes