

## Course Outcomes Guide

**Course Title:** Bio 103 and 104

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### **Expected Learning Outcomes:**

Upon completion of Human Anatomy and Physiology I, students will:

1. Exhibit the ability to use core content of the Anatomy and Physiology curriculum
2. Apply physiological and anatomical principles to the diseased state.
3. Demonstrate transfer of information from diagrams, models and non-human models to the human organism.
4. General Education: Demonstrate the ability to access, process, analyze and synthesize scientific information.
  - a. Relate a basic core of scientific principles to an open-ended framework.
  - b. Demonstrate observational and analytic skills in a structured situation.
  - c. Formulate conclusions based on observations and information.
  - d. Use technology to access scientific information, generate and analyze empirical data, and solve problems.

**Assessment** (How do or will students demonstrate achievement of each outcome?)

Common exam for Bio 103 and cumulative HAPS exam for Bio104

**Validation** (What methods have you used or will you use to validate your assessment?)

The HAPS exam is nationally normed and our common exam for Bio 103 is correlated with the national cumulative exam.

**Results** (What do your assessment data show? If you have not yet assessed student achievement of your learning outcomes, when is assessment planned?)

Our students score as high as 13 points above the national HAPS exam average.

**Follow-up** (How have you used or how will you use the data to improve student learning?)

Individual instructors exam results for each item and then adjust their teaching based on areas where students under achieve.

### **Budget Justification**

(What resources are necessary to improve student learning?)

We don't need any resources right now.