

Course Outcomes Guide (COG)

Course Title: Bio 103 (course # changed to Bio 203 Summer 2017) **Date:** May 11, 2017

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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 final exam for Bio 103
- Common final lab exam
- Common general education questions – at end of data table

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.
- The general education questions are given to other biology classes in our division.

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

- Weak areas reflected in common final exam: biochemistry, secondary active transport, enzymes, histology, endocrine – cell communication, sensory pathway, meninges, reflex, neuron physiology, senses, bone, muscle energy

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. We are using McGraw Hill Connect on-line learning modules to reinforce areas where students are weak.

Budget Justification

- Fee added to students enrolling in Bio 103 and Bio 104 (now Bio 203 and Bio 204) for the administration of the HAPS (Human Anatomy and Physiology) Exam.
- Prerequisites are now: Bio 119, Chm 101, or passing of anatomy and physiology exam with a score of 70%.

Bio 103 Gen Ed SLOA Data
(See graphs for each instructor.)