

Course Outcomes Guide

Course Title: Bio 104 (Course # changed to Bio 204 for Summer 2017) **Date:** May 12, 2017

Course Team: Rebecca Beecroft, Terri Bidle, Bernard Murphy, Vennece Fowlkes, Gregg Mason

Expected Learning Outcomes:

Upon completion of Human Anatomy and Physiology II, 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?)

- Cumulative HAPS exam for Bio104
- Comprehensive lab final exam
- General education assessment

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

- The HAPS exam is nationally normed.
- The comprehensive lab final was developed by the full-time faculty who teach A & P.

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

- Please see data sheet at the end of COG.
- Our students score as high as 13 points above the national HAPS exam average.
- Areas of weakness: blood pressure, endocrine, integumentary, central nervous system, neuron physiology.
- General education questions: See results on the following page.

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 will require more student engagement by requiring Connect activities.

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 104 Gen Ed SLOA Data
(See graphs for individual instructors.)