

Course Outcomes Guide (COG)

Course Title: Bio 206
Course Team: Terri Bidle

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Expected Learning Outcomes:

Upon completion of Nutrition 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?)

- Final exam for Bio 206
- Case study (Exam # 4)

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

Common cumulative exam could be given in the future by all instructors.

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 as indicated by results of final exam: salt substitutes, why blood calcium is not an accurate measure of total body calcium, how the percentage of protein, carbohydrate, and fat in a diet can be normal, but total amounts can be too high, oxidative phosphorylation in the electron transport system, how glucose is required to replace oxaloacetate in the citric acid cycle for efficient oxidation of fatty acids, risks of dehydration that results in the loss of 2% or more body weight, what variables determine total daily expenditure (basal metabolic rate, thermal effect of food, and level of physical activity)

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

Prerequisites have been changed to Bio 204 (beginning in the fall 2018 semester)