

Assessment: Assessment Plan

Degree Program - AS - Exercise Physiology (PHD)

CIP Code: 26.0908.00

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Modality: Face-to-Face

Student Learning Outcome: PhD 1

To expand student knowledge of integrative physiological processes and how exercise can improve health outcomes.

Outcome Status: Active

Assessment Methods

Benchmark 1.1 Students will articulate current understanding of exercise physiology.

KIN 7301 Advanced Exercise Physiology I and KIN 7303 Advanced Exercise Physiology II

Direct assessment via a set of questions that allows evaluation of how well students improved their understanding of core physiology concepts taught throughout these courses. To evaluate competency, a set of questions testing knowledge of the core concepts will be given at the start and conclusion of the semester. To calculate overall student competency for this learning objective, the instructor will determine the percentage of individuals who improved their knowledge from pre- to post-evaluation.
(Active)

Criterion: 80% of students will score 80% or above on assessment

Benchmark 1.2 Students will demonstrate an understanding of pathophysiological pathways leading to disabilities, health disparities, and/or health conditions.

Students will be assigned to give an oral presentation of a research article that discusses a pathophysiological pathway. The following rubric will be used to assess the student's ability to articulate the information.
(Active)

Criterion: 80% of students will score 80% or above on assessment

Benchmark 1.3 Students will exhibit a clear understanding of current research topics in exercise physiology.

Students will complete a written assignment to compare and contrast current trends in the literature
(Active)

Criterion: 80% of students will score 80% or above on assessment

Student Learning Outcome: PhD 2

To prepare exercise physiologists grounded in scientific competence and engaged in scholarly inquiry.

Outcome Status: Active

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Assessment Methods

Benchmark 2.1 Students will delineate the theoretical concepts of experimental design. We expect that 80% of students will achieve 4 or more points out of 6 possible points on the rubric.

Students will demonstrate knowledge experimental design and analytical techniques as assessed during a practical exam. Students will describe the experimental design and analyze the data in a case study.
(Active)

Criterion: 80% of students will score 80% or above on assessment

Benchmark 2.2 Students will demonstrate competency of the scientific method.

Students will demonstrate knowledge of the scientific method. Instructors will analyze student proficiency in developing novel hypotheses based on current scientific literature. The instructor will rate students on the five competencies listed below. The instructor will sum scores and report them as a percentage of the total possible score.
(Active)

Criterion: 80% of students will score 80% or above on assessment

Benchmark 2.3 Students will demonstrate increased engagement in scholarly activities.

KIN 7000 Research—Engagement in Multiple Research Projects
Instructors of KIN 7000 will report on the number of students enrolled, number of IRB submissions, EHS training modules or workshops completed, active projects per student, and roles of each student in a project.
(Active)

Criterion: 80% of students will score 80% or above on assessment

Student Learning Outcome: PhD 3

To develop proficient communication skills that will advance students to a leadership role.

Outcome Status: Active

Assessment Methods

Benchmark 3.1 Students will demonstrate effective oral communication skills. Student in the College and University Teaching in Exercise Physiology course completed a four-part Learning Module on an exercise physiology topic worth 200 points. (1) Students completed a preparatory assignment that included development of student learning objectives for a self-selected exercise physiology topic, content outline and brief description for the topic, and a brief description of the instructional method(s) to be used when teaching this topic. (2) Students developed a maximum of a 15-minute video of themselves teaching this exercise physiology topic using a variety of instructional modalities. (3) Students wrote a reflective self-assessment of his or her teaching module. (4) Students completed reviews of four classmates' videos that included positive comments as well as constructive critiques to help each classmate learn things that can be improved or strengthened. (Active)

Criterion: 80% of students will score 80% or above on assessment

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Benchmark 3.2 – Students will exhibit strong leadership skills in a group setting.

Individual students will lead group discussion of a research article during weekly seminar. The following rubric will be used to assess the student's ability to articulate the information.

(Active)

Criterion: 80% of students will score 80% or above on assessment

Benchmark 3.3 – Students will develop as researchers through dissemination of empirical knowledge. Assessed through departmental annual evaluations of Ph.D. students. We anticipate 80% of students will improve by 10% annually.

The Graduate Coordinator will rate students annually on areas of professional development including number of professional presentations at regional and national meetings, number of published articles, and course instructor duties. A composite score will be derived annually.

(Active)

Criterion: 80% of students will score 80% or above on assessment