

# **School of Medicine Biomedical Sciences PhD**

---

## **Broad Learning Goals**

- A.** Competent, skilled experimentalists
- B.** Problem solvers
- C.** Critical and independent thinkers
- D.** Expert in the field with both depth and breadth of knowledge
- E.** Excellent communicators
- F.** Exemplars of high ethical standards
- G.** Collaborators and team players

## **Student Learning Outcomes**

- 1.** Set up and conduct experiments that produce tangible results. Operate equipment and execute methods required for project completion.
- 2.** Diagnose, evaluate, test and determine how to overcome technical and practical problems.
- 3.** Analyze, critique and dissect biological problems. Formulate new hypotheses based on available data, devise strategies for hypothesis testing, and organize and analyze data for publication.
- 4.** Explain and illustrate discipline-specific subject matter. Interpret and evaluate primary literature.
- 5.** Succinctly explain and summarize state of knowledge in field, interpretation of results and conclusions in oral and written form.
- 6.** Demonstrate working knowledge of responsible conduct in research. Critically reflect on ethical problems.

7. Demonstrate 'people' skills. Work cooperatively as part of interdisciplinary teams.