

College of Pharmacy

Ph.D. in Pharmaceutical Sciences

Broad Learning Goals

- A. Assembling and summarizing scientific literature
- B. Written and oral communication
- C. Critical thinking
- D. Ethics and responsible conduct
- E. Designing a scientific study
- F. Capstone project

Student Learning Outcomes

- A1. Assemble a comprehensive body of published research and draw an accurate conclusion about the state-of-the science on a specific topic.
- A2. Read, accurately interpret and critically analyze procedures (including error identification), results and conclusions from discipline-specific published research.
- A3. Identify and succinctly communicate key hypotheses, theories, controversies, and seminal works related to the research concentration.
- A4. Identify knowledge gaps and potential future research needed to advance a specific topic in the student's research field.

- B1. Clearly communicate, in oral and written form, results from a variety of discipline-specific scientific research, as well as from scientific research conducted by the student.

- C1. Demonstrate independent critical thinking about key topics and issues in the research concentration.
- C2. Identify potential errors in and limitations of key research studies related to work, including studies conducted by the student.

- D1. Demonstrate responsible and ethical conduct in research, including fulfilling all requirements for human subjects, use of animals in research, conflict of interest, data processing, and data reporting.

- E1. Design and implement independent, original, discipline-specific scientific research that produces valid, tangible results.
- E2. Accurately interpret the results from scientific research conducted by the student.

- F1. Complete a discipline-specific, original, publication-quality dissertation.