

## **Learning Outcomes for PhD Students in Instructional Design & Learning Sciences**

Upon completion of the program, graduates will demonstrate the ability to:

### **I. Research & Scholarship**

- Synthesize and critique existing research and theoretical frameworks in ITLS.
- Formulate original research questions that address significant problems or gaps in the field.
- Design and implement qualitative, quantitative, and/or mixed-methods research methodologies, appropriate to their research questions.
- Analyze data and interpret findings to contribute new knowledge to the field.
- Communicate research findings through scholarly writing, presentations, and publications.

### **II. Theoretical Foundations**

- Analyze and evaluate learning theories and instructional models from diverse perspectives.
- Develop and apply theoretical frameworks to inform research and practice in ITLS.
- Apply learning theories to instructional problems and innovative solutions.

### **III. Design & Development**

- Design and develop innovative learning environments and interventions.
- Evaluate the effectiveness and impact of designed solutions.
- Apply human-centered design principles and consider diverse learner needs.

### **IV. Professional Skills**

- Collaborate with interdisciplinary teams, community partners, and other stakeholders to conduct research, develop innovative solutions, and address educational challenges.
- Demonstrate leadership by mentoring junior scholars, shaping research agendas, and advocating for advancements in the field of ITLS.
- Critically reflect on their research, design practices, and theoretical assumptions to refine their scholarly identity and contribute to the ongoing evolution of the field.
- Uphold ethical standards in research, design, and professional practice, addressing issues of equity, access, and social responsibility in diverse cultural contexts.