Ph.D. in Learning and Developmental Science-Specialization in Learning Sciences

Degree Requirements (90 cr.)

Major Requirements (36 cr.)

Required Courses (6 cr.)
- P544 Applied Cognition and Learning Strategies (3 cr.)
- P572 Introduction to the Learning Sciences or P640 Thinking and Learning in Social Contexts (or equivalent) (3 cr.)
- I540 Learning and Cognition in Education (3 cr.)
- One of the Following:
  - I711 Current Readings in the Learning Sciences (3 cr.)
  - I640 Thinking and Learning in Social Contexts (3 cr.)
  - Any other 600 level Learning Sciences Course approved by Advisor (3cr)

LS Core requirement (9 cr)
- I631 Theorizing Learning in Context (3 cr.)
- I632 Designing for Learning in Context (3 cr.)
- I633 Methods for Studying Learning in Context (3 cr.)

Other Learning Sciences Courses (6 cr)
- Any 6 credits of Learning Sciences courses with Advisor Approval

Methodological Explorations (3cr)
  - Select 1 additional course with a methodological focus, with advisor approval. This can be from any program area.

Dossier (12cr)
- I695 Topical Inquiry Seminar in Learning Sciences (3 cr.) (taken 4 times)

Other Learning Sciences Courses (12–15 cr.)
Courses should include a minimum of six credit hours of coursework on theory and three credit hours of coursework on design. These courses, plus the inquiry linkage course, must include a minimum of six credit hours at the 600-level.
- P507 Assessment in Schools (3 cr.)
- P540 Learning and Cognition in Education (3 cr.)
- P545 Educational Motivation (3 cr.)
- P571 Proseminar in Learning Science (1 cr.)
• P574 Topical Seminar in Learning Science (3 cr.)
• P631 Theorizing Learning in Context (3 cr.)
• P632 Designing for Learning Context (3 cr.)
• P633 Capturing Learning in Context (3 cr.)
• P650 Topical Seminar in Educational Psychology (3 cr.)
• P674 Advanced Topical Seminar in Learning Sciences (1 ‐ 3 cr.)
• P690 Independent Study in Educational Psychology (1 ‐ 3 cr.)

Early Inquiry Experience (12–15 cr)
Apprenticeship may be taken for 1–3 credit hours each semester. In this context, the student must carry out an independent research project as the early inquiry experience. The resulting research report must be read and approved by the advisory committee.

• P573 Learning Sciences Apprenticeship (12–15 cr.)

Inquiry Linkage (3 cr.)
• P633 Capturing Learning in Context (3 cr.)

Inquiry Requirements (12 cr)

• Y520 or Y521 (3cr)
• Select 3 courses from the Qualitative and Quantitative Methodology Program (9cr)
• Y521 Methodological Approaches to Educational Inquiry (3 cr.)
• Select courses from the approved Inquiry Course list (12 cr.)

A list of approved inquiry courses may be found at https://education.indiana.edu/students/graduates/approved-core-inquiry-courses.html.

Minor Requirements (12 cr.)
The minor must have integrity in its own right and must complement the major. The minor field must demonstrate wholeness within itself and contribute to the student’s overall doctoral program. Minors are normally formulated within a single program area. However, an interdisciplinary or individualized minor is also possible. Interdisciplinary or individualized minors require a written description of the minor’s underlying theme along with a rationale for each course’s contribution to that theme through the Minor Justification form. This form should be submitted and approved by the Graduate Studies Office before enrolling in the minor courses. Major area courses may not be used in the minor.

Elective Requirements (15 cr.)
Electives may be taken in fields inside or outside the School of Education. Students may take electives in any area of interest to complement their program of study.
**Early Inquiry Experience Requirement**

To satisfy the program requirements, the student must carry out an independent research project as an early inquiry experience. The resulting research report must be read and approved by the major members of the program of studies committee. This project must be completed before advancing to candidacy and is expected to be completed in the first three years. A master’s thesis can be considered but must meet the same approval process.

**Dissertation Requirements (15 cr.)**

- PI795 Dissertation Proposal Preparation (3 cr.)
- PI799 Doctoral Thesis in Educational Psychology (12 cr.)