

## **Doctoral Degree**

### **Developmental and Learning Sciences**

*Approved by the DLS Faculty, September 2017*

The PhD Degree in Developmental and Learning Sciences (DLS) provides individuals with theoretical grounding and research experience in psychological science in education. Students gain foundational knowledge in the three core areas: a) cognition, learning, and instruction, b) social and emotional development, and c) educational neuroscience, plus expertise in one core area. Students also acquire rigorous methodological training and participate in research throughout the program.

#### **Prerequisites**

EDPS 850 or 851: Child Psychology or Psychology of Adolescence (3) or equivalent upper-level undergraduate or graduate-level development course

#### **Core Courses (21 hours)**

EDPS 854: Human Cognition, and Instruction (3)  
EDPS 922: Mind, Brain, and Education (3)  
EDPS 960: Advanced Cognitive Psychology in Education (3)  
EDPS 961: Cognitive Development (3)  
EDPS 962: Personality and Social Development (3)  
EDPS 966: Psychology of Learning (3)  
EDPS 967: Motivation (3)

#### **Additional Coursework in Developmental and Learning Sciences (at least 6 hours)**

At least two courses from the following:

EDPS 855: Teaching Learners to Learn (3)  
EDPS 863: Introduction to Applied Behavior Analysis (3)  
EDPS 869: Developmental Psychopathology (3)  
EDPS 898: Instructional and Motivational Accommodations for Diverse Learners (3)  
EDPS 898: The Psychology of Professional Development and Expertise (3)  
EDPS 921: Creativity and Talent Development (3)  
EDPS 988: Lifespan Development (3)  
EDPS 989: Psychology of Reading and Writing (3)  
EDPS 991: Applied Social Psychology (3)  
EDPS 991: Developmental Cognitive Neuroscience (3)  
EDPS 991: Designing and Developing Instruction: Principles and Techniques (3)  
EDPS 991: Social and Affective Neuroscience (3)

Other appropriate courses approved by the advisor

#### **Methods (at least 21 hours)**

At least 21 hours from the following, including at least:

(a) 6 hours in measurement/evaluation (with at least 3 hours at 900-level); EDPS 870, EDPS 970)

(b) 6 hours in research design/methodology (EDPS 900a, EDPS 900b, EDPS 936),

(c) 9 hours in statistics (EDPS 941, EDPS 942, EDPS 971, EDPS 991 Multilevel Modeling, EDPS 991 Multivariate Analysis, EDPS 991 Longitudinal Models).

### **Research (30-40 hours)**

EP 899: Master's thesis (6-10) or equivalent

EP 995: Doctoral Seminar (3), leading to publishable manuscript

EP 999: Dissertation (12-18)

### **Additional Requirements (0-12 hours)**

- [Program of Studies](#) (first half of program)
- Courses outside department (at least 6 hours, can be covered in Additional Coursework)
- Coverage of ethics and human diversity (can be covered in other courses such as EDPS 850, 851, 962)
- Substantial and appropriately supervised experience in teaching and in application, which may be associated with practicum hours and/or assistantship responsibilities (as approved by advisor)
- Comprehensive Exams

*Total (including work carried over from masters) must be at least 90 hours.*