

## **Instructional Technology (Ph.D.)**

Learning Technologies Division  
2nd Floor, College of Education building  
Stephen Harmon, Chair

The Ph.D. major in Instructional Technology provides specialization for individuals in the following areas: instructional design, alternative instructional delivery systems, research, management, and consulting. The program is designed for highly competent individuals who are working in the instructional technology field in a wide variety of educational, training, and development areas such as those found in schools, higher education, business, industry, and government agencies.

### **Program Degree Requirements**

#### **Doctor of Philosophy in Instructional Technology**

##### **Core Area (18)**

The Core Area consists of 15 semester hours of research coursework and 3 semester hours of Social Foundation of Education and Psychology of Learning coursework.

##### **Research Core (15 hours)**

Choose one course (3):

- EPRS 8500 Qualitative/Interpretive Research in Education (3)
- EPRS 8530 Quantitative Methods and Analysis in Education (3)

Required (12):

- A two course sequence (6 hours) in research methodology (see below for specific tracks/courses)
- Two courses (6 hours) in advanced research methods as identified by the Doctoral Advisory Committee

##### **Quantitative Methodology**

- EPRS 8540 Quantitative Methods and Analysis in Education II
- EPRS 8550 Quantitative Methods and Analysis in Education III (3)
- EPRS 8820 Institutional Research (3)
- EPRS 8830 Survey Research, Sampling Principles and Questionnaire Design (3)
- EPRS 8840 Meta-Analysis (3)
- EPRS 8660 Bayesian Statistics (3)
- EPRS 9550 Multivariate Analysis (3)
- EPRS 9560 Structural Equation Modeling (3)
- EPRS 9570 Hierarchical Linear Modeling I (3)
- EPRS 9571 Hierarchical Linear Modeling II(3)
- EPRS 9900 Advanced Research (3)

### Qualitative Methodology

- ANTH 8010 Qualitative Methods in Anthropology (3)
- EPRS 8510 Qualitative Research in Education II (3)
- EPRS 8520 Qualitative Research in Education III (3)
- EPRS 8640 Case Study Methods (3)
- EPRS 8700 Visual Research Methods (3)
- EPRS 9120 Poststructural Inquiry (3)
- EPRS 9400 Writing Qualitative Research Manuscripts (3)
- EPSF 9280 Interpretive Inquiry in Education (3)

### Single-Case Methodology

- EPY 8850 Introduction to Single-Case Methodology (3)
- EPY 8860 Applications of Single-Case Methodology (3)

### Historical/ Philosophical Methodology

- EPSF 9850 Historical Research in Twentieth Century American Education (3)
- EPSF 9930 Philosophical Analysis and Method (3)

### Measurement Methodology

- EPRS 7920 Classroom Testing, Grading, and Assessment (3)
- EPRS 8920 Educational Measurement (3)
- EPRS 9350 Introduction to Item Response Theory (3)
- EPRS 9360 Advanced Item Response Theory (3)

### **Social Foundations of Education and Psychology of Learning course (3)**

Select one (3):

- EPSF 8270 Philosophy of Education (3)
- EPSF 8280 Anthropology of Education (3)
- EPSF 8310 Sociology of Education (3)
- EPSF 8320 Politics and Policy in Education (3)
- EPSF 8340 History of American Education (3)
- EPSF 9260 Epistemology and Learning (3)
- EPY 8030 Advanced Applied Behavior Analysis (3)
- EPY 8050 The Psychology of Instruction (3)
- EPY 8070 Understanding and Facilitating Adult Learning (3)
- EPY 8080 Memory and Cognition (3)
- EPY 8180 Development During School Age (5 to 18 Years) (3)
- EPY 8200 Advanced Developmental Psychology: Cognition and Intellect (3)
- EPY 8220 Advanced Developmental Psychology: Personality and Socialization (3)

**Major Area (27)**

The required courses provide a conceptual base of research, emerging issues in education, and an in-depth examination of research in the major field. The internship (IT 8660) facilitates the application of theory to practice in the major field of study.

Required (15):

- EDCI 9850 Research Seminar (9) [*Students will take the course for one hour every semester until they are admitted into candidacy.*]
- EDCI 9900 Critique of Education Research (3)
- IT 8660 Internship in Instructional Technology (3)

Select (12):

Students and Doctoral Advisory Committee select additional departmental courses relating to instructional technology.

**Dissertation (15)**

Required (15):

- EDCI 9990 Dissertation (15)

**Program total: minimum of 60 semester hours**