Educational Psychology

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Program Codes:
20FS0210PHD

The PhD in Educational Psychology prepares students to conduct research on psychological processes as they affect student learning and successful teaching in urban settings. Graduates become research experts and innovators in one of two areas of emphasis: Human Development and Learning or Measurement, Evaluation, Statistics, and Assessment. Interdepartmental concentrations in Gender and Women’s Studies, Survey Research Methodology, and Violence Studies are available to students in this program.

Admission and Degree Requirements

- PhD in Educational Psychology (http://catalog.uic.edu/gcat/colleges-schools/education/epsy/phd)

Educational Psychology Courses

EPSY 400. Print-based Instructional Materials: Design and Development. 3 hours.
Focuses on the design and development process for creating and presenting print-based instructional materials for various learning contexts, to include basic analysis, design, layout, and development guidelines. Course Information: Extensive computer use required. Prerequisite(s): EPSY 380.

EPSY 405. Educational Assessment and Evaluation. 3 hours.
Design, administration and scoring of assessments and evaluations useful in educational contexts for measuring different types of learning, program and developmental outcomes, from simple to complex. Course Information: Prerequisite(s): EPSY 255; or junior standing or above; or consent of the instructor.

EPSY 413. Youth Development Colloquium. 1 hour.
Focuses on current issues and trends in the field of youth development. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Junior standing or above.

EPSY 414. Developing Programs for Youth in Urban Contexts. 3 hours.
Survey, evaluation, and development of models and programs designed to facilitate growth, development and learning for diverse youth. Specific focus will be on the urban context. Course Information: Previously listed as CI 416. Prerequisite(s): Consent of the instructor or enrollment in the Youth Development Program.

EPSY 415. Fieldwork in Youth Development in Urban Contexts. 3 hours.
Experience working with programs that foster the developmental needs of young people in urban contexts. Students will design, implement and evaluate programs that promote personal development and independent action among youth. Course Information: May be repeated to a maximum of 6 hours. Previously listed as CIE 415. Field work required. Prerequisite(s): Enrollment in M.Ed in Youth Development or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

EPSY 416. Systematic Approaches to Program Quality. 3 hours.
An overview of theories and methods in exploring the system of program development, quality implementation, and evaluation. Relevant for those working in diverse settings and with diverse youth. Course Information: Recommended background: coursework in psychology or educational psychology.

EPSY 420. Social Development of Urban Children. 3 or 4 hours.
General principles of social development and how these principles need to be modified for this population of children. Course Information: Same as PSCH 420. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Admission to a graduate program in education or psychology; or consent of the instructor.

EPSY 429. Constructivist Approaches to Development: Piaget and Vygotsky. 3 or 4 hours.
Piaget's and Vygotsky's theories of development of knowledge. Empirical and logico-mathematical forms of knowledge. Thought and action. Thought and language. Course Information: Same as PSCH 429. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): ED 422 or PSCH 422 or the equivalent and graduate standing in education or graduate standing in psychology or consent of the instructor.

EPSY 430. Interactive Online Instruction: Design and Development. 3 hours.
Focuses on the design and development process for creating interactive e-learning for various learning contexts. Course Information: Extensive computer use required. Prerequisite(s): EPSY 380.

EPSY 440. Engaging Multimedia Instruction: Design and Development. 3 hours.
Focuses on the design and development of interactive instructional animations that may stand-alone or be integrated as part of a learning program. Course Information: Extensive computer use required. Prerequisite(s): EPSY 380.

EPSY 446. Characteristics of Early Adolescence. 3 hours.
Physiological, social, emotional and cognitive development of early adolescence. The relationship between these developmental characteristics and success in the middle grades. Course Information: Same as PSCH 423. Prerequisite(s): Admission to a program in psychology or education; or approval of the College of Education or consent of the instructor, EPSY 210 or EPSY 255 or ED 421 or ED 422.
EPSY 449. Early Childhood/Early Childhood Special Education: Perspectives, Policies and History. 3 hours.
Perspectives, policies, history, and foundations of Early Childhood Education and Early Childhood Special Education. Emphasis on the effects of changing economic, political, legal, social, and views of human development. Course Information: Same as SPED 449 and EDPS 449.

EPSY 450. Assessment and Evaluation of Learning Outcomes and Instructional Products. 3 hours.
Designed to develop knowledge and skills in systematically evaluating student learning and instructional technology product outcomes related to program goals and standards. Course Information: Extensive computer use required. Prerequisite(s): EPSY 380.

EPSY 451. Staff Management and Human Relations for Leaders in Early Childhood Education. 3 hours.
Designed for directors, supervisors and managers in early childhood programs. Focuses on the administrator’s role in staff development and human relations, including recruitment, hiring, retaining, training, support and evaluation of personnel.

EPSY 452. Legal, Fiscal and Program Management for Leaders in Early Childhood Education. 3 hours.
Provides students with opportunities to learn and apply current theories of administration in order to improve their skills in managing early childhood education programs.

EPSY 453. Educational Programming and Community Relations for Leaders in Early Childhood Education. 3 hours.
Designed for directors and managers in early childhood programs. Focuses on development and implementation of a program philosophy, curriculum for typically and atypically developing children; and promoting a positive image to the public.

EPSY 455. Cognitive Development and Disabilities. 3 hours.
Theory and research on cognitive development in children with disabilities from infancy through adolescence, in the context of typical development. Models for cognitive assessment and intervention. Course Information: Same as SPED 455. Field work required. Prerequisite(s): SPED 461 or ED 461 or the equivalent or consent of the instructor.

EPSY 466. Language Development, Diversity, and Disabilities. 3 hours.
Theory and research on language development in children with disabilities, in the context of typical development. Models for language assessment and intervention. Course Information: Same as SPED 466. Field work required. Prerequisite(s): SPED 461 or ED 461 or the equivalent or consent of the instructor.

EPSY 467. Social and Emotional Development and Disabilities. 3 hours.
Exploration of the risk factors and different theoretical approaches associated with the social and emotional development of youth ages 5-21 with and without disabilities. Course Information: Same as SPED 467. Field work required. Prerequisite(s): SPED 461 or ED 461 or the equivalent or consent of the instructor.

EPSY 482. Collaborating with Families, Community, and Professionals. 3 hours.
Explores the dynamics of professional collaboration with families, addressing characteristics, structures, and processes of collaboration for children and youth with and without disabilities. Course Information: Same as SPED 482. Previously listed as EPSY 582. Field work required. Prerequisite(s): SPED 461, applicable to SPED M.Ed. students only; or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

EPSY 494. Topics in Educational Psychology. 1-4 hours.
Seminar on a pre-announced topic focusing on methodology, research and educational implications of recent models of learning, problem solving, and thinking. Course Information: May be repeated to a maximum of 12 hours. Prerequisite(s): Consent of the instructor.

EPSY 496. Independent Study. 1-4 hours.
Students carry out independent study under the direction of educational psychology faculty member. Course Information: Prerequisite(s): Junior standing or above; and consent of the instructor.

EPSY 500. Proseminar in Educational Psychology I: Socialization into The Field. 2 hours.
Socializes students into Educational Psychology, and covers professional development (e.g., importance of CV, presenting at a conference, IRB, grant proposals), and areas of emphasis (e.g., learning, assessment, statistics, measurement). Course Information: Same as PSCH 550. Satisfactory/Unsatisfactory grading only. Prerequisite(s): Admission to the Ph.D. in Educational Psychology or Education programs; or consent of the instructor.

EPSY 501. Theories of Educational Psychology. 4 hours.
Covers critical theories that drive the research and practice of educational psychology, including theories and research that pertain to student achievement, motivation, beliefs, assessments, teaching, and learning across the life span. Course Information: Same as PSCH 551. Prerequisite(s): EPSY 500 and admission to the Ph.D. in Education program or the Ph.D. in Psychology program; or consent of the instructor.

EPSY 502. Social Psychology of Education. 4 hours.
Social psychological factors influencing academic and social outcomes in schools. Achievement motivation, peer relations, social values in relation to student characteristics and school practice. Course Information: Same as PSCH 517. Prerequisite(s): Admission to the Ph.D. in Education program or the Ph.D. in Psychology program; or consent of the instructor.

EPSY 503. Essentials of Quantitative Inquiry in Education. 4 hours.
Introduces theory and assumptions behind parametric statistics. Also provides hands-on experience in conducting basic quantitative research (t-test, correlation, regression, analysis of variance). Course Information: Same as ED 503. Prerequisite(s): Admission to the Ph.D. in Education program or consent of the instructor.

EPSY 504. Rating Scale and Questionnaire Design and Analysis. 4 hours.
Development and administration of rating scales and questionnaires, analysis of data, and reporting of results. The focus is on rating scales. Course Information: Same as PSCH 504. Previously listed as EPSY 550. Prerequisite(s): ED 501, and ED 503 or EPSY 503 or the equivalents or consent of the instructor.
EPSY 505. Advanced Analysis of Variance and Multiple Regression. 4 hours.
Detailed coverage of the principles of ANOVA models, multiple correlation, and multiple regression techniques as tools for the analysis and interpretations of educational and behavioral science data. Course Information: Extensive computer use required. Prerequisite(s): EPSY 503; or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in a Lecture/Discussion and a Laboratory/Discussion.

EPSY 506. Item Response Theory/Rasch Measurement. 4 hours.
Statistical inference with item response theory models, useful to measure an individual's performance on a test or questionnaire. Models include parametric, non-parametric, unidimensional, multidimensional, and cognitive. Course Information: Same as PSCH 506. May be repeated to a maximum of 8 hours. Extensive computer use required. Prerequisite(s): ED 501 and ED 503 or the equivalent; and appropriate consent of the instructor. Recommended background: EPSY 504 and EPSY 505 and EPSY 546 or the equivalent. Appropriate score on the department placement test. Graduate or professional standing required or consent of the instructor.

EPSY 507. Approaches to Analyzing Rating Data. 1-4 hours.
An introduction to various statistical approaches for detecting rater effects and monitoring rater performance. Course Information: Extensive computer use required. Prerequisite(s): ED 501 and ED 503 or the equivalent; and consent of the instructor. Recommended background: EPSY 504 and EPSY 505 and EPSY 546 and EPSY 546; and EPSY 547.

EPSY 508. Proseminar in Educational Psychology II: Discourses in the Field. 3 or 4 hours.
Covers proper scientific writing, including the process of scientific argumentation, crafting research questions and ideas, how to write all components of a scientific article, dissertation, conference presentations, and grant proposal. Course Information: Prerequisite(s): ED 503 and ED 505 and ED 506 and enrollment in the PhD program in Educational Psychology or approval of instructor. Recommended background: ED 502.

EPSY 509. Research Design in Education. 4 hours.
Emphasis is placed on discriminating theoretical and program evaluation research, distinguishing the parts of the study, and designing a research proposal. Course Information: Prerequisite(s): Admission to a graduate program.

EPSY 510. Theory of Statistics. 4 hours.
The foundations of statistical analysis and probability modeling, including probability theory, parameter estimation, axioms and principles of rational decision-making, and large-sample theory. Course Information: EPSY 546 or EPSY 547 or EPSY 563; and graduate or professional standing; or consent of the instructor or equivalent.

EPSY 512. Hierarchical Linear Models. 4 hours.
Parametric and semiparametric approaches to hierarchical linear modeling, for the analysis of continuous and categorical multivariate data. These approaches extend on classical linear regression analysis. Course Information: Extensive computer use required. Prerequisite(s): EPSY 546 or EPSY 547 or EPSY 563; and graduate or professional standing; or consent of the instructor or equivalent.

EPSY 514. Non-Parametric Modeling. 4 hours.
Contemporary nonparametric and semiparametric models that make minimal assumptions about the data-generating process, in order to permit more accurate conclusions in data analysis. Course Information: Prerequisite(s): ED 501 and EPSY 503 or the equivalent; and appropriate score on the department placement test.

EPSY 517. Seminar in Urban Youth Development. 4 hours.
In-depth analysis of topics and issues in the field of youth development and its relation to youth program development, with special attention to the urban context. Course Information: Previously listed as CIE 517. Prerequisite(s): Consent of the instructor.

EPSY 519. Curriculum, Instruction and Assessment in Early Primary Grades. 5 hours.
Language arts, mathematics, science, social studies and fine arts curriculum development and instruction in the primary grades. Course Information: Prerequisite(s): EPSY 429 and EPSY 520; and consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

EPSY 520. Curriculum and Practice in Early Childhood Education I. 5 hours.
Examines curriculum models and methods for fostering learning and development in early childhood. Provides extensive clinical experience in early childhood classrooms. Course Information: Prerequisite(s): EPSY 429 and ED 422; and consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

EPSY 521. Early Childhood Education Student Teaching. 10 hours.
Instructional methods and curricula in the early childhood classrooms. Discussion of program and child evaluation. Includes full-time supervised student teaching. Course Information: Meets Illinois State requirement for Type 04 Certification by providing supervised student teaching experience. Prerequisite(s): EPSY 519 and EPSY 520; and consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

EPSY 522. Internship in Early Childhood. 6 hours.
Instructional methods in curricula in Early Childhood Education. Meets Illinois State Board of Education requirement for Type 04 Certification. Course Information: May be repeated. Full-time fieldwork required in early childhood education classroom. Prerequisite(s): Consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

EPSY 525. Advanced Adolescent Development. 3 hours.
Examines current theory and research on physiological, intellectual, emotional, and social development during the adolescent years. Examines relationship amongst individual, interpersonal, and contextual factors related to adolescent development. Course Information: Prerequisite(s): EPSY 446 or EPSY 502 or ED 421 or ED 422 or ED 445; or consent of the instructor. Recommended background: Coursework in Educational Psychology or Psychology.

EPSY 526. Development in Infancy and Early Childhood. 4 hours.
Consideration of development in the preschool years. Stress on theory, research, individual child study, and educational implications. Course Information: Same as PSCH 520. Prerequisite(s): ED 422 or PSCH 422 or the equivalent.

EPSY 530. Achievement Motivation. 4 hours.
The psychology of achievement motivation will be explored from the perspectives of personality, social, and educational psychology. Course Information: Same as PSCH 525. Prerequisite(s): Graduate standing in education or psychology or consent of the instructor.
EDPS 531. Gender, Sexuality, and Adolescent Development. 4 hours.
Focuses on the development of gender and sexuality in adolescence, the ways in which this development impacts growth in other areas, and the impact that social, contextual, and cultural factors have on these processes. Course Information: Prerequisite(s): Consent of the instructor.

EDPS 535. Human Development for School Leaders. 4 hours.
Deepens school leaders' understanding of human development across the lifespan, from birth to adult learning in schools; includes attention to differentiated instruction, SpEd inclusion, and ELL learners in all age groups. Course Information: Same as EDPS 535. Prerequisite(s): Consent of the instructor.

EDPS 546. Educational Measurement. 4 hours.
Contemporary models for the analysis of data arising from multiple-choice tests, rating-scale questionnaires, or experts' judgments of examinee performance. Test equating is also covered. Course Information: Prerequisite(s): ED 501, and ED 503 or EPSY 503 or the equivalent or consent of the instructor.

EDPS 547. Multiple Regression in Educational Research. 4 hours.
Introduction to multiple correlation and regression techniques as tools for the analysis and interpretation of educational and behavioral science data. Course Information: Prerequisite(s): EPSY 503.

EDPS 553. Assessment for Teachers. 4 hours.
Plan, construct, administer, score, and report on classroom assessments that measure a wide variety of learning outcomes, from simple to complex; select and use standardized achievement tests; developing defensible grading procedures. Course Information: Prerequisite(s): EPSY 421 and EPSY 422; or consent of the instructor.

EDPS 560. Educational Program Evaluation. 4 hours.
An introduction to concepts, approaches, techniques, and practices of educational program evaluation. Students work toward acquiring knowledge and skills to plan and conduct evaluations of programs, projects, curriculum and institutions. Course Information: Prerequisite(s): ED 501 and EPSY 503; or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation, one Lecture-Discussion and one Practice.

EDPS 561. Assessment for Measurement Professionals. 4 hours.
Plan, construct, administer, score, and report on classroom assessment; select and use standardized achievement tests; develop defensible grade procedures; measure issues in classroom assessment; validity and reliability of classroom assessments. Course Information: Prerequisite(s): ED 421 and ED 422; or consent of the instructor.

EDPS 562. Large-Scale Testing. 2 or 4 hours.
An introduction to large-scale assessments, including planning, constructing, administering, scoring, and reporting on large-scale tests. Course Information: Prerequisite(s): EPSY 501 or the equivalent; or consent of the instructor. Recommended background: EPSY 503 or EPSY 553 or EPSY 561. Prior experience in designing, administering, scoring, and/or reporting on large-scale tests.

EDPS 563. Advanced Analysis of Variance in Educational Research. 4 hours.
Detailed coverage of the principles of analysis of variance and the analysis of data collected from research employing experimental designs. Course Information: Prerequisite(s): EPSY 503.

EDPS 583. Multivariate Analysis of Educational Data. 4 hours.
Introduction to multivariate statistical methods in education including data screening, canonical correlation, MANOVA/MANCOVA, DFA, profile analysis, component/factor analysis, confirmatory factor analysis, and structural equation modeling. Course Information: Prerequisite(s): EPSY 505 or EPSY 547 or EPSY 563.

EDPS 593. Ph.D. Research Project. 1-8 hours.
Students design, implement, and analyze results of a research problem in this area of specialization. Completed study is reviewed by faculty. Course Information: May be repeated to a maximum of 8 hours. Prerequisite(s): Admission to the Ph.D. in Education program.

EDPS 594. Special Topics in Educational Psychology. 1-4 hours.
Seminar on a preannounced topic focusing on methodology, research, and educational implications of recent models of learning, problem solving, and thinking. Course Information: May be repeated to a maximum of 12 hours. Prerequisite(s): ED 421 and ED 422, or consent of the instructor.

EDPS 595. Independent Study. 1-4 hours.
Students carry out independent study in educational psychology under the direction of a faculty member. Course Information: May be repeated to a maximum of 12 hours. Students may register in more than one section per term. Prerequisite(s): ED 490 or the equivalent, and consent of the advisor and instructor.

EDPS 598. Masters Research. 0-16 hours.
Research on the topic of the student's Master's thesis. Course Information: May be repeated to a maximum of 8 hours. Prerequisite(s): Consent of the thesis instructor.

EDPS 599. Thesis Research. 0-16 hours.
Research on the topic of the student's dissertation. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. Prerequisite(s): Consent of the dissertation advisor.

Education Courses
ED 402. Philosophy of Education and Urban School Policy. 3 hours.
Selected social and education philosophies and their impact on urban school curriculum design, school organization and control.

ED 403. Policy Issues in the History of American Education. 3 hours.
Political, economic, and cultural influences shaping the development of American education policy; emphasis on issues of education theory and practice in their historical settings.

ED 416. Practical Inquiry I: Teacher Competencies and Performance-Based Assessment. 3 hours.
Introduction to examining teaching through practitioner inquiry, including teacher performance assessment, as a way of learning to teach and beginning a lifelong process of professional development.

ED 417. Practical Inquiry II: Teacher Competencies and Performance-Based Assessment. 3 hours.
A developing examination of teaching through practitioner inquiry, including teacher performance teacher assessment, as a way of learning to teach and fostering a lifelong process of professional development.

ED 421. Advanced Educational Psychology. 3 hours.
Examines current theory and research on the teaching-learning process with particular attention to general learning and curriculum-relevant problem solving skills. Course Information: Prerequisite(s): EPSY 210; or graduate standing.
ED 422. Advanced Developmental Psychology and Educational Processes. 3 hours.
Focuses on cognitive and social development from birth to early adolescence. Examines relations between development, learning, and educational processes. Course Information: Same as PSCH 422. Prerequisite(s): PSCH 100 and any one from EPSY 210, PSCH 259, PSCH 320 and consent of the instructor; or graduate standing.

ED 424. Social and Emotional Learning: Research, Practice, and Policy. 3 or 4 hours.
Research, theory, educational practices, and federal/state policies that promote the social, emotional, and academic competence of students who are in preschool, middle school, or high school. Course Information: Same as PSCH 424. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): PSCH 343 or equivalent; or consent of the instructor. Recommended background: Experience working with children or adolescents.

ED 430. Curriculum and Teaching. 3 hours.
Introduction to curriculum and teaching as areas of inquiry; implications of these areas of inquiry for educational practice; related contemporary problems and issues. Course Information: Credit is not given for ED 430 if the student has credit for CI 428. Prerequisite(s): Admission to graduate study in Education, or consent of the instructor.

ED 431. Improving Learning Environments. 3 hours.
Analysis of structural, normative, and social dimensions of learning environments and their relationships to student learning. Exploration of change processes to improve those environments. Course Information: Prerequisite(s): Graduate standing or consent of the instructor.

ED 432. Instruction and Assessment in the Urban Secondary Classroom. 5 hours.
Learning to teach, how to plan for diverse learners, design differentiated instruction, assess student learning and develop classroom discipline. Course Information: Field experience in urban schools is required. Prerequisite(s): Completion of education core courses in Graduate Teacher Certification Program: Ed 402 or Ed 403 and ED 445. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

ED 445. Adolescence and the Schools. 3 hours.
Physiological, intellectual, and social development of adolescence. Relations between aspects of adolescent development and the academic and social demands of secondary schools. Course Information: Prerequisite(s): EPSY 210, or the equivalent, or graduate standing.

ED 450. Pre-Student Teaching in the Urban Elementary Classroom: Fieldwork III. 1-12 hours.
This pre-student teaching experience immerses teacher candidates in classrooms in a supervised experience of learning to teach and developing effective practices. Course Information: May be repeated. Field work required. Field work: total of 180 hours, coordinated by the program director and in collaboration with field instructors. Prerequisite(s): Senior standing or above and admission to the Bachelor of Arts in Urban Education, Concentration in Elementary Education.

ED 451. Student Teaching in the Urban Elementary Classroom: Fieldwork IV. 0-12 hours.
Student teaching is a full-time experience of learning to teach in a classroom with university mentoring and supervision. Course Information: May be repeated. Field work required. Prerequisite(s): ED 450 and admission to the Bachelor of Arts in Urban Education, Concentration in Elementary Education and senior standing. Class Schedule Information: To be properly registered, students must enroll in one Discussion and one Practice.

ED 461. Political and Socio-Cultural Perspectives on Special Education. 3 hours.
Students will examine issues of access and equity through legislation, litigation, and socio-cultural perspectives and be introduced to major theoretical frameworks that influence special education programs. Course Information: Same as SPED 461. Field work required.

ED 470. Educational Practice with Seminar I. 0-12 hours.
The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Course Information: Graduate credit only with approval of the college. 1 to 12 hours. Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the college or department of specialization. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

ED 471. Educational Practice with Seminar II. 0-12 hours.
The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Course Information: Graduate credit only with approval of the college. 1 to 12 hours. Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in ED 470, and approval of the college or department of specialization. Class Schedule Information: To be properly registered, students must enroll in one Conference and one Practice.

ED 472. Promoting Academic and Prosocial Behavior I. 3 hours.
The importance of school-wide and classroom structure and climate in the educational process. Strategies to promote academic success and desired social behavior. Course Information: Same as SPED 472. Field work required. Prerequisite(s): SPED 461 or ED 461 or the equivalent or consent of the instructor.

ED 473. Teaching Math and Science with Adaptations. 3 hours.
Provides prospective teachers with assessment strategies and a range of adaptations, modifications, and interventions in math and science for students with disabilities. Course Information: Same as SPED 473. Field work required. Prerequisite(s): SPED 461 or ED 461 or the equivalent or consent of the instructor.

ED 500. Philosophical Foundations of Educational Inquiry. 4 hours.
Philosophical foundations of various forms of educational inquiry. Epistemological and ethical dimensions of different research approaches. Course Information: Prerequisite(s): Admission to the Ph.D. in Education program or consent of the instructor.

ED 501. Data and Interpretation in Educational Inquiry. 4 hours.
Data, interpretation, reliability, validity, accuracy, stability, and generalizability from different methodological perspectives; how research design, data collection, and interpretation vary with different philosophical approaches. Course Information: Prerequisite(s): Admission to the Ph.D. in Education program or consent of the instructor.

ED 502. Essentials of Qualitative Inquiry in Education. 4 hours.
Surveys methods for conceptualizing, gathering, managing, and interpreting qualitative data. Various ethnographic, historical, and narrative forms of inquiry are reviewed, as are the corresponding methods associated with each. Course Information: Extensive computer use required. Field work required. Prerequisite(s): Admission to the Ph.D. in Education program or consent of the instructor.
ED 503. Essentials of Quantitative Inquiry in Education. 4 hours.
Introduces theory and assumptions behind parametric statistics. Also provides hands-on experience in conducting basic quantitative research (t-test, correlation, regression, analysis of variance). Course Information: Same as EPSY 503. Prerequisite(s): Admission to the Ph.D. in Education program or consent of the instructor.

ED 504. Urban Contexts and Educational Research. 4 hours.
A multidisciplinary approach for understanding research on learners and learning, schools and schooling, families, and communities in urban contexts. Course Information: Extensive computer use required. Prerequisite(s): Admission to one of the PhD programs in the College of Education or consent of the instructor.

ED 505. Introduction to Educational Research: Paradigms and Processes. 4 hours.
Offers a survey introduction to the history, contexts, paradigms and orientations, ethics, and processes of educational research. Course Information: Extensive computer use required. Prerequisite(s): Admission to one of the PhD programs in the College of Education or consent of the instructor.

ED 506. Introduction to Educational Research: Designs and Analyses. 4 hours.
Offers researchers an introduction to research in the field of education. It is the second of a two-course sequence and will introduce students to different types of research designs and analyses in the field of education. Course Information: Extensive computer use required. Prerequisite(s): ED 505 and admission to one of the PhD programs in the College of Education or consent of the instructor.

ED 543. Research on Teaching. 4 hours.
Review and analysis of history, paradigms, methods, and findings of research on teaching. Focus on the development of research questions and strategy. Course Information: Prerequisite(s): ED 490 or ED 503 or CIE 578; and consent of the instructor.

ED 580. Colloquium on Diversity in Secondary Education. 2 hours.
Designed to provide candidates with opportunities to interact with experts who deal with various issues of diversity in education, to discuss those issues with their cohorts, and to explore ways of meeting students’ diverse needs. Course Information: Satisfactory/Unsatisfactory grading only.

ED 594. Special Topics in Education. 1-4 hours.
Exploration of a topic not covered in existing course offerings. Course Information: May be repeated if topics vary. Students may register in more than one section per term. Prerequisite(s): Consent of the instructor.

ED 596. Independent Study. 1-4 hours.
Students independently study related topics not covered by course, under faculty supervision. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Consent of the advisor.