EPSY - EDUCATIONAL PSYCHOLOGY

EPSY 602 Educational Psychology
Credits 3. 3 Lecture Hours.
Cognitive analysis of academic skills and tests; current cognitive views of learning, memory, problem solving and development of skill and expertise; effects of aptitude, motivation and task environment on academic performance. Implications for assessment and instruction.
Prerequisite: Approval of department head.

EPSY 603 Qualitative Methodologies in Educational Research
Credits 3. 3 Lecture Hours.
Survey of qualitative research methodologies commonly used in educational research; purposes, epistemologies, data collection and analyses that distinguish different qualitative approaches to educational research; ethical and procedural challenges of collecting qualitative data in educational settings.
Prerequisite: Master's level classification.

EPSY 604 Career Counseling in Schools
Credits 3. 3 Lecture Hours.
Understanding the culturally competent career counseling theory, assessment and skills as applied to the diverse populations in schools.
Prerequisite: Approval of department head.

EPSY 605 Effects of Culture, Diversity, and Poverty on Children and Youth
Credits 3. 3 Lecture Hours.
Understanding of how the intersecting nature of culture, diversity, and poverty impact adjustment outcomes in children and youth; comprehension of our own belief systems; exploration of disparities in education and mental health across ethnically, culturally and socially diverse groups; strategies for alleviating educational and mental health disparities.
Prerequisite: Graduate classification.

EPSY 606 Motivation and Emotion for Optimal Learning and Performance
Credits 3. 3 Lecture Hours.
Role of motivation and emotion in human learning and performance; major theories and empirical research relevant to motivation and emotional impacts of learning, performance, or functioning in a variety of situations, contexts, and cultures; content applied across multiple disciplines including education, counseling or therapeutic outcomes, achievement performance in school, art, music and sports.
Prerequisite(s): EPSY 602 or approval of instructor; graduate classification.

EPSY 618 Neurodevelopment and Genetic Disorders in Children
Credits 3. 3 Lecture Hours.
Comprehensive coverage of a broad array of neurodevelopment and genetic disorders in children; emphasis on cognitive and emotional sequelae of these disorders and their relationship to medical, psychological, and educational interventions.
Prerequisite: Graduate classification; approval of department head.

EPSY 619 Nature and Needs of the Gifted and Talented
Credits 3. 3 Lecture Hours.
Psychological characteristics of the gifted and talented; introduction to identification techniques, educational programs, instructional approaches and special problems.
Prerequisite: Approval of department head.

EPSY 621 Clinical Neuropsychology
Credits 3. 2 Lecture Hours. 2 Lab Hours.
Surveys brain-behavior relationships with an emphasis on understanding the brain as an interdependent, systemic network; administer and score the Halstead-Reitan Neuropsychological Test Battery.
Prerequisites: Graduate classification; approval of department head.

EPSY 622 Measurement and Evaluation in Education
Credits 3. 3 Lecture Hours.
Principles of psychological testing applied to education; uses and critical evaluation of achievement and aptitude, interest, and personality tests and performance in educational settings.
Prerequisite: Approval of department head.

EPSY 623 Social and Emotional Development of the Gifted and Talented
Credits 3. 3 Lecture Hours.
Theoretical models and patterns of social and emotional development among the gifted and talented through adolescence; implications and strategies for educators.
Prerequisite: Approval of department head.

EPSY 624 Creative Thinking
Credits 3. 3 Lecture Hours.
Development of personal creativity across fields of endeavor; analysis of creative potential, including psychometric assessment; experience of methods for stimulating creative processing and productivity.
Prerequisite: Approval of department head.

EPSY 625 Advanced Psychometric Theory
Credits 3. 3 Lecture Hours.
Psychometric theory, planning, construction, analysis, and evaluation of written and performance tests; item analysis, norms, reliability, and validity (including factor analytic) studies; item response theory.
Prerequisites: EPSY 640; approval of department head.

EPSY 626 At-Risk Hispanic Families and Their Young Children
Credits 3. 3 Lecture Hours.
Provides educational practitioners and related personnel with the conceptual and theoretical foundations for understanding the nature and impact of exposure to childhood risks on literacy, physical and mental health development of Hispanic families and their young children within developmental framework.
Prerequisites: Graduate classification; approval of department head.

EPSY 627 Structured Personality Assessment in Counseling
Credits 3. 3 Lecture Hours.
Personality evaluation using structured assessment instruments; variety of self-report personality inventories; the Minnesota Multiphasic Personality Inventory.
Prerequisites: EPSY 622; approval of department head.

EPSY 628 The Rorschach Technique with Children and Adolescents
Credits 3. 3 Lecture Hours.
Analysis of the Rorschach Technique; basic issues in projective assessment, scoring, interpreting and analyzing the Rorschach, with an emphasis on its clinical use with children and adolescents.
Prerequisite: Approval of instructor and department head.

EPSY 629 Educational Planning for the Gifted and Talented
Credits 3. 3 Lecture Hours.
Theoretical issues confronting educators involved in program development for gifted and talented children and adolescents; analysis of educational perspectives and instructional implications.
Prerequisites: Graduate classification and approval of department head.
EPSY 630 Single-Case Experimental Design  
Credits 3.3 Lecture Hours.  
Teaches measurement, design, implementation, and analysis skills to conduct research with single-subject design; review and summarize the quality of single-case literature, plan and implement AB designs.  
**Prerequisites:** Approval of instructor and department head.

EPSY 631 Program Evaluation  
Credits 3.3 Lecture Hours.  
Learning of key evaluation skills such as establishing focus with client, posing evaluation questions, data collection techniques, designing for internal validity, data aggregation; scenario practice.  
**Prerequisite:** EPSY 635 or equivalent.

EPSY 633 Qualitative Research Design and Data Collection  
Credits 3.3 Lecture Hours.  
Introduction to qualitative designs used to answer educational, psychological, or social research questions; historical foundations, epistemologies and essential elements of prevalent qualitative research designs; methods of collecting qualitative data including interviews, naturalistic observation, participant-observation, and stimulated recall procedures.  
**Prerequisites:** Graduate classification; approval of department head.

EPSY 634 Educational Neuroscience  
Credits 3.3 Lecture Hours.  
Human learning form a biological perspective; fundamentals of genetics, neuroscience and the principles used to better understand the conditions in which brains develop and function optimally; biological substrates of emotions and motivation, as well as executive functions (e.g. working memory, attentional control) and skills related to language and mathematics; neuroscience and application to atypical learners; emotional, learning and other disorders that make learning and succeeding in educational contexts more challenging.  
**Prerequisites:** Graduate classification; approval of department head.

EPSY 635 Educational Statistics  
Credits 3.2 Lecture Hours. 3 Lab Hours.  
Introduction to the theory and application of statistical methods in behavioral science research with emphasis on classroom applications.  
**Prerequisite:** Approval of instructor.

EPSY 636 Techniques of Research  
Credits 3.3 Lecture Hours.  
Fundamental concepts and tools of research applied to psychological and educational problems; rationale of research, analysis of problems, library skills, sampling, appraisal instruments, statistical description and inference, writing the research report and representative research designs.  
**Prerequisite:** Approval of department head.

EPSY 637 Qualitative Grounded Theory Methodologies  
Credits 3.3 Lecture Hours.  
Methods of collecting qualitative data to answer educational or psychological questions using Grounded Theory methodologies; analysis and interpretation of data using Grounded Theory methodologies.  
**Prerequisites:** Graduate classification; introductory course in qualitative methods; and approval of instructor.

EPSY 640 Experimental Design in Education I  
Credits 3.3 Lecture Hours.  
Preparation in experimental research design in educational studies; application of statistical methods in these designs.  
**Prerequisites:** EPSY 636 or equivalent; approval of department head.

EPSY 641 Experimental Design in Education II  
Credits 3.3 Lecture Hours.  
Preparation in research design in educational studies; application of statistical methods in these designs.  
**Prerequisites:** EPSY 640; approval of instructor and department head.

EPSY 642 Meta-Analysis of Behavioral Research  
Credits 3.3 Lecture Hours.  
Principles and use of quantitative techniques for research integration in education and other behavioral disciplines; computer-based and branching literature searches, coding protocols, theory of effect size estimation, analysis and reporting.  
**Prerequisites:** EPSY 435 or STAT 651; EPSY 636 or equivalent; approval of department head.

EPSY 643 Applied Multivariate Methods  
Credits 3.3 Lecture Hours.  
This seminar presents various techniques for applied multivariate modeling of phenomena in educational psychology.  
**Prerequisites:** EPSY 640 and EPSY 641 or approval of instructor; approval of department head.

EPSY 644 Histories of Psychology  
Credits 3.3 Lecture Hours.  
Comprehensive understanding of the histories, including theoretical foundations, pivotal contributions and contributors, within the field of psychology that have led to current conceptualizations and applied, professional practice of psychology.  
**Prerequisites:** Graduate classification; approval of instructor; approval of department head.

EPSY 645 Creative Genius  
Credits 3.3 Lecture Hours.  
Analysis of patterns of development among highly creative individuals; required dramatic presentation on the life and accomplishments of a selected individual through the use of the soliloquy stage technique.  
**Prerequisite:** Graduate classification; approval of department head.

EPSY 646 Issues in Child and Adolescent Development  
Credits 3.3 Lecture Hours.  
Theoretical orientations, issues, research strategies and empirical findings of developmental psychology relevant to education.  
**Prerequisites:** PSYC 634 or equivalent; approval of department head.

EPSY 647 Lifespan Development  
Credits 3.3 Lecture Hours.  
Issues and models of studying lifespan development; research and theory of lifespan development; comprehensive and current foundation of lifespan development.  
**Prerequisite:** Graduate classification; approval of department head.

EPSY 648 Intelligence and Creativity  
Credits 3.3 Lecture Hours.  
Considers theory, research, methodologies and issues related to the definition, identification and assessment of intelligence, and assessment of intelligence and creativity; addresses theories of intelligence and creativity; methodologies and issues related to assessment of both; relationship between them; and frameworks for fostering creativity; considers implications/applications of theory and research on effective teaching practices for creativity.  
**Prerequisite:** Graduate classification; approval of department head.
EPSY 650 Multiple Regression and Other Linear Models in Education Research
Credits 3. 3 Lecture Hours.
Overview of basic and advanced topics in regression analysis; equal emphasis on developing procedural knowledge, statistical theory, research designs, and practical issues and methods using statistics in empirical research; basis of linear regression models and logistic regression models.
Prerequisites: EPSY 641 or STAT 652 or SOCI 631; graduate classification; approval of department head.

EPSY 651 Theory of Structural Equation Modeling
Credits 3. 2 Lecture Hours. 3 Lab Hours.
Introduction to the theory and application of structural equation modeling.
Prerequisites: EPSY 640 and EPSY 641 or STAT 650 and STAT 651; graduate classification; approval of department head.

EPSY 652 Theory of Hierarchical Linear Models
Credits 3. 3 Lecture Hours.
Introduction to the theory and application of hierarchical linear models.
Prerequisite: EPSY 640, EPSY 641 or STAT 651, STAT 652, or any equivalent courses; some knowledge on ANOVA and Multiple Regression; graduate classification; approval of department head.

EPSY 653 Advanced Structural Equation Modeling
Credits 3. 3 Lecture Hours.
Advanced topics of structural equation models; includes exploratory factor analysis under the structural equation modeling framework, testing factorial invariance, structural equation models with categorical observed variables, multilevel structural equation models, latent growth models, and growth mixture models.
Prerequisites: EPSY 651 and EPSY 652.

EPSY 654 Longitudinal Data Analysis
Credits 3. 3 Lecture Hours.
Review of traditional approaches to longitudinal data analysis (e.g., MANOVA); consideration of newer approaches including multilevel modeling (MLM) and latent growth modeling (LGM) and their advantages in analyzing longitudinal data.
Prerequisite: EPSY 651 and EPSY 652.

EPSY 655 Item Response Theory
Credits 3. 3 Lecture Hours.
Advanced measurement topics in item response models; theoretical foundations and practical applications of IRT models; dichotomous and polytomous IRT models including Rasch model (IPL model), 2-PL model, 3-PL model, rating scale model, partial credit model, and graded response model; analysis based on each model illustrated using BILOG-MG, PARSCALE, and M-plus.
Prerequisite: EPSY 625.

EPSY 656 Survey Instrument Development
Credits 3. 3 Lecture Hours.
Experiences in developing instruments to measure cognition, attitude or behavior; issues and practices relating to construct specification, instrument design and administration; emphasis on analysis and summary of validity study data.
Prerequisites: Graduate classification; EPSY 640 or equivalent; approval of department head.

EPSY 659 Practicum in Educating the Gifted and Talented
Credits 3. 1 Lecture Hour. 6 Other Hours.
Theory and strategies for instruction and guidance of the gifted and talented through a supervised experience in a laboratory setting with gifted and talented children and/or adolescents. May be taken three times for credit.
Prerequisite: Approval of instructor and approval of department head.

EPSY 673 Learning Theories
Credits 3. 3 Lecture Hours.
Comprehensive study of classical and current learning theories; their significance to modern education.
Prerequisite: Approval of department head.

EPSY 679 Research on Teacher Effectiveness
Credits 3. 3 Lecture Hours.
Considers theory, research and methodologies related to the definition and identification of effective teaching practices; practice, implications and applications of theory and research in educational psychology on effective teaching practices.
Prerequisites: Graduate classification; approval of department head.

EPSY 682 Seminar in...
Credit 1. 1 Other Hour.
Knowledge, skills and attitudes in special education, counseling, psychological foundations of education and school psychology. Specific topics are announced for each seminar offered. May be taken more than once but not to exceed 6 hours of credit.
Prerequisite: Approval of department head.

EPSY 683 Field Practicum in...
Credits 1 to 15. 1 to 15 Other Hours.
Supervised experience in professional employment settings in educational psychology. Wide range of practical experiences and activities as listed below that are closely supervised by departmental faculty. Repeatable to 15 hours total.
Prerequisite: Approval of instructor and department head.

EPSY 684 Professional Internship
Credits 1 to 4. 1 to 4 Other Hours.
Limited to advanced doctoral students; University-directed experience in a professional employment setting; full-time participation and responsibility in experiences related to career specializations in counseling or school psychology. Repeatable to 9 hours total.
Prerequisites: Approval of department head six weeks prior to registration; approval of department head.

EPSY 685 Directed Studies
Credits 1 to 4. 1 to 4 Other Hours.
Directed individual study of selected problems.
Prerequisite: Approval of department head.

EPSY 688/CPSY 688 Research Proposal Development
Credits 4. 3 Lecture Hours. 2 Lab Hours.
This seminar models the processes of developing and defending research proposals.
Prerequisites: EPSY 640 and EPSY 641 or approval of instructor; approval of department head.
Cross Listing: CPSY 688/EPSY 688.

EPSY 689 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours.
Selected topics in an identified area of educational psychology. May be repeated for credit.
Prerequisite: Approval of department head.
EPSY 690 Theory of Educational Psychology Research
Credits 3. 3 Lecture Hours.
Theory and design of research problems and experiments in various subfields of educational psychology; communication of research proposals and results; evaluation of current research of faculty and students and review of current literature. May be repeated for credit.
Prerequisite: Approval of instructor and department head.

EPSY 691 Research
Credits 1 to 23. 1 to 23 Other Hours.
Research for thesis or dissertation.
Prerequisite: Approval of department head.