

COURSE DESCRIPTIONS

a. REQUIRED COURSES

EPSY 602 Educational Psychology

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 622 Measurement and Evaluation in Education

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 635 Educational Statistics

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

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 638 Qualitative Methodologies in Educational Research

(To be updated as it becomes available)

EPSY 689 Special Topics: Grant Writing and Program Planning

(To be updated as it becomes available)

EPSY 689 Special Topics: Communication: Practice in Education

(To be updated as it becomes available)

EPSY 656 Instrument Development

Instrument development lays the foundation for the development of validity arguments relating to the inferences and decisions that are based on construct measures. This course will provide an in-depth overview of validity concepts and the development of validity arguments. It also presents how analyses, especially those conducted within a Rasch measurement framework, can be used to provide evidence to support validity arguments that are founded during the instrument development process. Prerequisite: EPSY 635

EPSY 690 Survey Research Methods

Introduction on the primary concepts of survey design including current knowledge about sources of error in surveys, sampling, instrumentation, field testing, survey operations, nonresponse bias

analysis and correction, and primary and secondary analysis of survey data. No prior experience in survey methods is expected. Prerequisite: EPSY 635.

EPSY 683 Field Practicum

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 fifteen hours total. Prerequisite: Approval of instructor.

b. ELECTIVE COURSES

EPSY 624 Creative Thinking

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 630 Single Case Research

Provides skills to conduct research with N=1 designs in the area of special education, school counseling and school psychology; provides the procedures and applications to scenarios in classroom and clinic settings; students are required to collect and analyze data in three mini studies. Prerequisite: Approval of instructor and department head

EPSY 631 Program Evaluation in School and Clinic

Learning of key evaluation skills: establishing focus with client, posing evaluation questions, data collection techniques, designing for internal validity, data aggregation; scenario practice. Prerequisite: Approval of instructor and department head.

EPSY 642 Meta-analysis

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 439 or STAT 651, EPSY 636 or its equivalent.

EPSY 646 Issues in Child & Adolescent Development

Theoretical orientations, issues, research strategies and empirical findings of developmental psychology relevant to education. Prerequisite: PSYC 634 or equivalent; approval of department head

EPSY 673 Learning Theories

Comprehensive study of classical and current learning theories; their significance to modern education. Prerequisite: Approval of department head

EPSY 679 Research on Teacher Effectiveness

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.

EDTC 654 Instructional Design

This course provides an introduction to instructional design, the process of specifying conditions of learning. Primary areas of focus include instructional systems design and instructional strategies. This is an applications course in which participants produce portfolio pieces. Students analyze an instructional environment as well as design, develop, and evaluate an instructional product as the major course project. In order to maximize relevance, students are encouraged to identify a client for whom to create products. Possible clients include local businesses, local teachers, A&M faculty and the local medical community.