SPRING 2021 COURSES AND DESCRIPTIONS

EPSY 70600 – Stat. & Computer Program. II; 3 Cr.; D. Rindskopf – Monday 8:30pm-10:15pm
Prerequisite: EPSY 70500 or equivalent
70500 and 70600 form an integrated sequence covering descriptive statistics, point and interval estimation, hypothesis testing, t-tests, analysis of variance, correlation, regression (including elementary matrix algebra), repeated measures designs, cross-classified data, and the use of computer packages for these analyses.

This course is designed to familiarize students with all aspects of the conduct of research in the field of educational psychology. This includes skills in reading, critiquing, and formulating research studies. Specifically, students will be taught to define problems, to advance hypotheses, to select appropriate research designs and statistical procedures, to choose or devise relevant measures of performance, to analyze and interpret the data and to communicate in writing the results of research.

EPSY 71400 – Instructional Issues: Individual and Cultural Factors; 3 Cr.; J. Lucariello – Tuesday 10:15pm-12:15pm
This course examines research and theory related to the influence of individual and cultural factors on teaching and learning. The applications of psychological research and theory to educational policy and practice are emphasized. Topics include models of teaching and assessment for diverse classrooms, the characteristics of learning paradigms within content areas, effective instruction for multilingual learners, Response to Intervention, and the cultural, familial, and personal factors that influence readiness to learn. Particular emphasis is placed on educational approaches and instructional strategies that respect and draw upon student diversity and individual differences to foster learning.

EPSY 71700 – Language and Communicative Development: Research and Education; 3 Cr.; P. Brooks – Wednesday 4:15pm-6:15pm
This course focuses on contemporary research on language and communicative development and its effects on education. It includes a consideration of empirical research on the following topics: structural and functional development, age and critical period, processes of development, first language development, second language development, language environments, and preschool development.

EPSY 73000 – Intro to Psychometrics; 3 Cr.; K. Markus – Wednesday 6:30pm-8:30pm
Prerequisite: EPSY 70600
The course offers a general introduction to psychometric methods primarily emphasizing classical test theory, test construction and validation, and test use. The emphasis lies with developing a firm understanding of basic psychometric concepts. This course lays a foundation for more advanced courses in specific topics introduced here. The course understands psychometrics and testing as applying broadly, not just to paper and pencil tests but also to performance assessments, behavioral observations, measured variables in experiments and quasi-experiments, surveys, and other forms of behavioral data collection. However, much of the material will emphasize measurement involving multiple indicators of a common construct.

EPSY 74000 – Mathematics for Social and Behavioral Scientists; 3 Cr.; J. Verkuilen – Thursday 4:15pm-6:15pm
This class will cover mathematics useful for social scientists. The purpose of learning this mathematics is to improve your ability to understand advanced methodological approaches such as structural equation models, hierarchical linear models, categorical data analysis, visualization, or network analysis. While this material is available elsewhere, taking several undergraduate mathematics courses is impractical for most students in a social science Ph.D. program. Examples will all be social science-based and the problems will involve understanding statistical techniques, some of which may not be covered in existing courses. Students intending to do further study, self-study, or who have already taken mathematics courses but do not have a clear application to real problems in social science literature will find this course helpful.

EPSY 83500 – Categorical Data Analysis; 3 Cr.; J. Verkuilen – Monday 4:15pm-6:15pm
Prerequisite: EPSY 70600 or equivalent
This course presents the theory and application of methods for analyzing nominal and ordinal data, including the use of computer programs for performing these analyses. Methods covered include loglinear models, logistic regression, logit models, and latent class analysis.

EPSY 85100 – Advanced Seminar on Technology, Learning, & Development; 3 Cr.; B. Homer – Tuesday, 6:30 PM – 8:30 PM
Prerequisite: 71400, 85000
This course examines how digital technologies affect children’s development, and the implications of this for education. We will overview key theoretical and empirical issues related to digital technology in students’ learning. By the end of the course, students will be familiar with the key theories related to technology and learning, they will know some of the main empirical research in this area, and will have an understanding of the current “state of the art” in both theory and research.