

SPRING 2021 INTERDISCIPLINARY COURSES:

Research Methods and Technology

Course	Time/Location	Description
APK6412: Sport and Exercise Psychology Ethics	Wed, 3:05-5:40 PM Remote	This course consists of in-depth elaboration on current important professional issues related to ethics in sport and exercise psychology. The issues presented and discussed in class consist of book chapters, the American Psychological Association (APA) and the Association of Applied Sport Psychology (AASP) Codes of Ethics publications.
DEP5068: Life-Span Human Development	Remote	This course discusses central theories and topics in developmental psychology across the life span, focusing especially on the implications of developmental theory and empirical research on counseling and other helping professions.
EDA5423: Data Driven School Improvement	Online	This course builds expertise in using data for a variety of school-improvement purposes, including instructional decision-making in grades K-12. Collaborative action-research skills are developed to solve school-based problems.
EDF5400: Basic Descriptive and Inferential Statistics Applications	Online	This course prepares students to both read and write papers containing basic statistical analyses. Topics covered include descriptive statistics, basic plots and graphing, hypothesis testing, confidence intervals, correlational techniques, and introduction to the general linear model.
EDF5402: Advanced Topics in Analysis of Variance Applications	Online	This course explores topics such as multiway ANOVA, covariance, repeated measures designs, nested designs, and generalizability theory.
EDF5406: Multivariate Analysis Applications	Online	This course examines design and analysis of research studies with multiple independent and dependent variables including path analysis, confirmatory factor analysis, and exploratory factor analysis.
EDF5409: Causal Modeling	Tues, 9:45AM-12:15PM Remote	This course considers causal modeling techniques, including structural equation modeling, longitudinal growth modeling, multiple-sample structural equation modeling, as well as assumptions underlying causal modeling.
EDF5414: Introduction to Large Data Sets	Mon, 3:05-5:40 PM F2F, Room TBD or Remote	This course focuses on identifying, managing, analyzing, and interpreting findings from existing large databases specific to the field of education. Students are introduced to the major existing databases and given the opportunity to analyze these data using Stata, a statistical software package popular in the social sciences.
EDF5434: Measurement Theory II	Remote	This is an advanced course in the theory, principles, and techniques of measurement.

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EDF5449: Survey Research Methods	Online	This course introduces the design, use, and analysis of questionnaires for data collection; significant research questions and strengths and weaknesses of various methodologies are discussed. Hands-on practice in questionnaire design.
EDF5462: Evaluation of New Educational Programs and Practices	Online	This course is an advanced level seminar on the theoretical and pragmatic aspects of program evaluation. Students begin with an overview and understanding of evaluation theoretical roots and the philosophical premises shaping evaluation theory. This leads to further understandings about the application of different research designs to the practice of evaluation, as presented in evaluation cases.
EDF5498: Single Case Design Research for Educators	Tues, 3:05-5:35 PM Remote	This course prepares students for conducting teacher action research using single case research designs (SCRD) in educational settings. Salient features of SCR D and the advantages and disadvantages of this research methodology are discussed. Students build competence in creating and analyzing high quality single case design studies to investigate the effectiveness of instructional interventions.
EDF5916: Research Proposal Writing	Online	This course provides the opportunity to develop a written research proposal (including literature review) and to select and specify the appropriate research design and data collection methods to answer one's research questions.
EDF6471: Quasi-Experimental Data Analysis	Mon & Wed, 4:50-6:05PM, STB1301E	This advanced course prepares students to conduct quasi-experimental methods appropriate for education policy analysis.
EDF5401: General Linear Model Applications	Online	In this course, topics included are general linear model applications including multiple regression, ANOVA, ANCOVA, aptitude-treatment-interaction analysis, and other techniques.

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EDF6476: Advanced Qualitative Research Seminar	Tues, 3:05-5:50PM Remote or F2F, Room TBD	This course explores the theoretical and pragmatic aspects of qualitative research. It is intended for students who already have a foundation in qualitative methods and are planning to use this methodological approach in their dissertation research. Students develop a "conference-ready" research paper that draws on a set of existing qualitative data and different theoretical perspectives.
EDF6479: Qualitative Data Analysis	Online	This course focuses on the analysis, interpretation and reporting of qualitative data collected during interpretive research.
EDF6937: Seminar in Advanced Research Problems	<i>see Class Search for offerings</i>	This course may be repeated to a maximum of fifteen semester hours. The course is designed for advanced students.
EDF7418: Multilevel Modeling	Thurs, 9:45AM-12:15 PM Remote	This course provides an introduction to multilevel models. Through this course, students learn about a variety of multilevel or hierarchical models appropriate for a broad range of applications. Topics discussed within the context of each multilevel model include hypothesis testing, evaluation of model fit, and computer packages that can be used to estimate the various multilevel models.
EDH5078: Outcomes Assessment in Higher Education I: Study Design	Thurs, 3:05-5:50PM Remote	This course prepares students to assess and evaluate postsecondary education outcomes. Students learn to define and identify specific outcomes of higher education, both inside and outside of the classroom. Outcomes related to students, faculty, student services, institutions, and state and federal policy issues are discussed and evaluated in the course.
EDP5216: Theories of Learning & Cognition in Instruction	Remote	This course focuses on the applications of prominent contemporary theories of learning, cognition, and information processing to instructional settings.
EME6403: Designing for Online Collaborative Learning	Online	This course teaches strategies and techniques for designing instructional activities for distance learning based on theories and principles of collaborative learning.

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EDG6363: Practicum in Experimental Learning Research	Remote	This course provides instruction and practice in planning, conducting, and describing (both orally and in writing) experimental research.
EDH5055: Introduction to Institutional Research	Online	This course provides an introduction to institutional research as a discipline in higher education. Course content is addressed within the context of organizational, administrative, political and ethical issues in institutional research. Practical experience with research databases and insights from current practitioners in the field are integrated into the course content.