

# Educ. Research & Statistics Courses

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## Courses

### **EDRS 5305. Educational Research Methods.**

Educational Research and Statistics (3-0) First of a two-course sequence to develop interrelated concepts and skills of research methods, experimental design in education, and statistical methods; includes computer applications and required computer laboratory; requires development of a formal research proposal.

**Department:** Educ. Research & Statistics

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

### **EDRS 5306. Qualitative Research.**

Qualitative Research (3-0) An introduction to qualitative research, showing when it is appropriate, what research questions it answers, and how to go about designing, carrying out, analyzing, interpreting, and writing up qualitative research. A practice research project is included.

**Department:** Educ. Research & Statistics

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

### **EDRS 5307. Data Based Decision Making.**

Application of quantitative and qualitative data analysis techniques for the examination of national, state, and local bases/reports to guide district/school-level decision making. Emphasis upon district and campus site-based decision making, data analysis, program evaluation, and data display for various school stakeholders. Prerequisites: EDAD 5310, EDAD 5312, and EDAD 5340, any of which may be taken concurrently.

**Department:** Educ. Research & Statistics

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (EDAD 5310 w/C or better AND EDAD 5312 w/C or better AND EDAD 5340 w/C or better)

### **EDRS 6302. Educational Research Methods.**

Educational Research Methods (3-0) An overview of the assumptions and requirements of quantitative, qualitative and mixed research methodologies prevalent in educational research. Specific focus will include the appropriate use and design of surveys, experimental and non-experimental designs, measurement and sampling, case studies, ethnography, and historical studies. Restricted to major: EDLA.

**Department:** Educ. Research & Statistics

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

### **EDRS 6315. Qualitative Research Methods I.**

Qualitative Research Methods I (3-0) Students will examine qualitative and ethnographic research methods, including participant observation and open-ended interviewing to address problems of educational organizations. Prerequisite: EDRS 6302 with a grade of B or better

**Department:** Educ. Research & Statistics

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (EDRS 6302 w/B or better)

**EDRS 6316. Qualitative Resrch Methods II.**

Qualitative research Methods II (3-0) Building on qualitative research methodology, and ethnographic methods, this class will explore the variations and complexity of qualitative methods in addressing problem solving in educational settings. Prerequisites: EDRS 6315 with a grade of "B" or better

**Department:** Educ. Research & Statistics

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (EDRS 6315 w/B or better)

**EDRS 6318. Quantitative Rsrch Methods I.**

Quantitative Research Methods I (3-0) This course provides examination of descriptive and inferential statistics characteristic of quantitative educational research. Topics include: measures of dispersion, standard deviation, probability, correlation, regression, and analysis of variance. Concepts and ideas will be introduced through lectures, seminars, and review of readings. Prerequisite: EDRS 6302 with a grade of B.

**Department:** Educ. Research & Statistics

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (EDRS 6302 w/B or better)

**EDRS 6319. Quantitative Rsrch Methods II.**

Quantitative Research Methods II (3-0) This course provides examination of advanced statistical methods associated with parametric and nonparametric research designs. Focus will include examination of hierarchical linear modeling, structural equation modeling, and the analysis of cross-classified categorical data (loglinear and logit models). Concepts and ideas will be introduced through lectures, seminars, and review of readings. Prerequisites: EDRS 6318 with a grade of "B" or better

**Department:** Educ. Research & Statistics

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (EDRS 6318 w/B or better)