

## **EDF/EDLD 802 Quantitative Research Methods in Educational Leadership**

### **Course Description**

Credit 3 hours. This course builds on the foundations of research and statistics and introduces advanced statistical techniques commonly used in educational research. Focus is on developing skills in parametric and nonparametric analyses through the use of statistical analysis software.

### **Conceptual Framework**

Southeastern Louisiana University  
College of Education and Human Development  
Conceptual Framework

The COEHD's Conceptual Framework provides direction for the development of effective professionals. It is a living document that continuously evolves as opportunities and challenges emerge. All aspects of this course are aligned with the Conceptual Framework, including the course objectives, field experiences and assessments. The four components of the Conceptual Framework are the institutional standards used for candidate assessment in undergraduate and graduate programs. They are Knowledge of Learner (KL), Strategies and Methods (SM), Content Knowledge (CK), and Professional Standards (PS). Diversity (DV) and Technology (TY) are included in the assessment process as themes that are integrated throughout all programs in the educational unit. The following is the link to the conceptual framework on the COEHD website:

[http://www.selu.edu/acad\\_research/colleges/edu\\_hd/about/conceptual\\_framework/index.html](http://www.selu.edu/acad_research/colleges/edu_hd/about/conceptual_framework/index.html)

(The University of Louisiana at Lafayette has a Conceptual Framework unique to its College of Education.)

### **Course Objectives**

Upon completion of the course, the student will be able to

- Demonstrate techniques of exploratory data analysis. CK
- Differentiate between parametric and nonparametric testing procedures. SM
- Describe and utilize analyses including ANOVA, regression analyses, discriminate analyses, canonical correlation, and factor analyses. SM
- Demonstrate the ability to create, edit, update, transfer, and manage data files as well as the ability to transfer and retrieve data using the internet and e-mail. SM
- Demonstrate the ability to create appropriate data structures for analyses using SPSS. SM TY
- Demonstrate the ability to interpret results of analyses for policy decision-making. CK PS
- Demonstrate the ability to communicate appropriately research findings for the writing of research reports using APA style. SM DV

**Diversity**

Students will be prepared to function in a diverse environment and/or community.

**Technology**

Students will be prepared to utilize technology in their professional environment or practice.

**Methodologies**

Teaching strategies may include, but is not limited to discussions, lecture, demonstrations, group work, field experiences, and on-line instruction. Course content will be drawn from theory and research, from student experiences, and from discussions in and out of class sessions.

**Field Experiences**

Field experiences may be required in this course in order to meet the course objectives.

**Course Assessment/Evaluation Method**

Students will be evaluated through a combination of methods including, but not limited to written examinations, practical examinations, projects, and class participation. Each instructor reserves the right to establish additional methods of assessment.

**Unit (COEHD) Assessment**

An artifacts to be designated by the instructor will be placed in the student's Portfolio on Pass-Port, the unit's required electronic portfolio system.