EDF 701 Educational Foundations 701 Educational Statistics

Credit Hours : 3

Prerequisite: EDF 600

Course Description

- EDF 701 Educational Statistics: Credit 3 hours. Prerequisite: Educational Foundations 600. Study of basic statistical concepts, both descriptive and inferential. Emphasis in placed on the use of these concepts in solving educational problems.
- In order to successfully plan, develop, and implement curricula to meet the needs of diverse learners in todayis world and to prepare students for the future, the College of Education and Human Development (COEHD) has identified four critical components of The Effective Educator: standards-based instruction (SBI), knowledge of the learner (KL), best pedagogical practices (PP), and content knowledge (CK).

Content Covered

Lesson 1: Introduction Lesson 2: Describing Univariate Data Lesson 3: Normal Distribution Lesson 4: Sampling Distributions Lesson 5: Point Estimation Lesson 6: Confidence Intervals Lesson 7: The Logic of Hypothesis Testing Lesson 8: One sample Hypothesis Tests Lesson 9: Independent Samples t-test Lesson 10: Dependent Sample t-test Lesson 11: One-way Analysis of Variance (ANOVA) Lesson 12: Tests Supplementing ANOVA Lesson 13: Chi-Square Lesson 14: Power Lesson 15: Measuring Effect Size Lesson 16: Describing Bivariate Data (Correlation)

Text

Salkind, N. J. (2000). Statistics for people who (think they) hate statistics. Thousand Oaks, CA: Sage.

References

Howell, D. C. (1997). Statistical methods in psychology (4th ed.). Belmont, CA: Wadsworth.

Kiess, H. O. (1989). Statistical concepts for the behavioral sciences. Boston: Allyn and Bacon.