

# RESEARCH, EVALUATION, MEASUREMENT & STATISTICS (REMS)

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## REMS 5000 Master's Thesis

**Prerequisites:** Consent of instructor.

**Description:** Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.

**Credit hours:** 1-6

**Contact hours:** Contact: 1-6 Other: 1-6

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

## REMS 5013 Research Design and Methodology

**Description:** An introduction to the concepts of research design, methodology, sampling techniques, and internal/external validity and the scientific method in educational problem solving. Critical analysis of educational research studies and the writing of proposals. Previously offered as ABSE 5013.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## REMS 5320 Seminar in Research, Evaluation, Measurement and Statistics

**Prerequisites:** Consent of instructor.

**Description:** In-depth exploration of contemporary problems of research, evaluation, measurement, and statistics. Previously offered as ABSE 5320. Offered for variable credit, 3-6 credit hours, maximum of 6 credit hours.

**Credit hours:** 3-6

**Contact hours:** Contact: 3-6 Other: 3-6

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

## REMS 5330 Practicum in REMS

**Description:** Apply skills and concepts of educational research, evaluation, measurement and statistics (REMS) and gain professional experience in a mentored applied setting. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.

**Credit hours:** 1-3

**Contact hours:** Contact: 1-3 Other: 1-3

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

## REMS 5373 Educational Measurements

**Description:** Appropriate applications of tests in the schools. Development of teacher-made tests, selection of standardized tests, interpretation of test results, understanding of the statistics reported in testing literature, uses of test results, and recent developments in educational measurement. Previously offered as ABSE 5373.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## REMS 5953 Statistical Methods in Education

**Description:** Statistical methods needed by conductors and consumers of research in education and the behavioral sciences. Introduction to interpretation and application of descriptive and inferential statistics. Previously offered as ABSE 5953.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## REMS 5963 Computer Applications in Nonparametric Data Analyses

**Description:** Presents popular nonparametric statistical methods as applied to educational and behavioral research. Emphasis on conceptual, rather than mathematical development, application, use of computer for data analysis, and substantive interpretation.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## REMS 6000 Doctoral Dissertation

**Prerequisites:** Consent of instructor.

**Description:** Required of all candidates for doctorate in applied behavioral studies. Credit given upon completion and acceptance of dissertation. Offered for variable credit, 1-25 credit hours, maximum of 25 credit hours.

**Credit hours:** 1-25

**Contact hours:** Contact: 1-25 Other: 1-25

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Educ Found Leadersh & Aviation

## REMS 6003 Analyses of Variance

**Prerequisites:** REMS 5013 and REMS 5953 and admission to a doctoral level program or consent of instructor.

**Description:** A thorough examination of analysis of variance procedures as they relate to principles of experimental design in education and behavioral sciences.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

## REMS 6013 Multiple Regression Analysis in Behavioral Studies

**Prerequisites:** REMS 6003 or consent of instructor.

**Description:** Applications of multiple regression as a general data analysis strategy for experimental and non-experimental research in behavioral sciences. Previously offered as ABSE 6013.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Educ Found Leadersh & Aviation

**REMS 6023 Psychometric Theory**

**Prerequisites:** REMS 6013 or consent of instructor.  
**Description:** Theoretical basis for applying psychometric concepts to educational and psychological measurement. The Classical True Score model and applications to instrument development and design of studies for evaluating instrument quality. Previously offered as ABSE 6023.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Educ Found Leadersh & Aviation

**REMS 6033 Factor Analysis in Behavioral Research**

**Prerequisites:** REMS 6013 or equivalent.  
**Description:** In-depth analysis of principal components and factor analysis methods, including maximum likelihood methods. Confirmatory factor analysis methods are also introduced.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Educ Found Leadersh & Aviation

**REMS 6320 Doctoral Seminar in REMS**

**Prerequisites:** Permission of instructor.  
**Description:** Theory and applications of selected advanced research and evaluation methods. Previously offered as REMS 6323. Offered for variable credit, 1-3 credit hours, maximum of 9 credit hours.  
**Credit hours:** 1-3  
**Contact hours:** Contact: 1-3 Other: 1-3  
**Levels:** Graduate  
**Schedule types:** Independent Study  
**Department/School:** Educ Found Leadersh & Aviation

**REMS 6373 Program Evaluation**

**Prerequisites:** REMS 5013 and admission to a doctoral level program or consent of instructor.  
**Description:** History, contexts, purposes and approaches of evaluating programs in a variety of settings. Emphasis on logic models and evaluation planning, design, data collection, analysis, reporting, and use of results. Applications include writing an evaluation plan for a real-world program. Previously offered as ABSE 6373.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Educ Found Leadersh & Aviation

**REMS 6383 Program Evaluation II**

**Prerequisites:** REMS 6373.  
**Description:** Builds upon students' knowledge, understanding and application of program evaluation approaches and techniques. Emphasis on practical application of knowledge and standards by conducting a program evaluation for an existing program.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Educ Found Leadersh & Aviation

**REMS 6663 Applied Multivariate Research in Behavioral Studies**

**Prerequisites:** REMS 6013 or consent of instructor.  
**Description:** An overview and analysis of multivariate procedures commonly applied to educational and behavioral research. Emphasis on conceptual design and application of these procedures. Previously offered as ABSE 6663.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Educ Found Leadersh & Aviation

**REMS 6673 Item Response Theory**

**Prerequisites:** REMS 6003 and REMS 6023 or consent of instructor.  
**Description:** Concepts, theory, and application of item response theory (IRT) in educational and psychological fields with computer applications for data analysis.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Educ Found Leadersh & Aviation

**REMS 6683 Multilevel Modeling Methods in Education**

**Prerequisites:** REMS 5953, REMS 6003, REMS 6013 or consent of instructor.  
**Description:** Multilevel modeling analyses relevant to research in educational and related sciences. Emphasis on practical, hands-on development, analysis, and interpretation of multilevel models.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Educ Found Leadersh & Aviation

**REMS 6693 Structural Equation Modeling for Behavioral and Educational Research**

**Prerequisites:** REMS 6003, REMS 6013, REMS 6033, and REMS 6663 or permission of instructor.  
**Description:** Concepts, theory, and application of SEM in behavioral research with computer applications for data analysis.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Educ Found Leadersh & Aviation

**REMS 6850 Directed Reading**

**Prerequisites:** Consent of instructor.  
**Description:** Directed reading for students with advanced graduate standing. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.  
**Credit hours:** 1-6  
**Contact hours:** Contact: 1-6 Other: 1-6  
**Levels:** Graduate  
**Schedule types:** Independent Study  
**Department/School:** Educ Found Leadersh & Aviation