RESEARCH EVAL MEAS & STAT (REMS)

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: Other: 1
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
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: Other: 3
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.
Credit hours: 1-3
Contact hours: Other: 1
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
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
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
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: Other: 1
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
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
Levels: Graduate
Schedule types: Lecture
Department/School: Educ Found Leadersh & Aviation
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
<th>Credit hours</th>
<th>Contact hours</th>
<th>Levels</th>
<th>Schedule types</th>
<th>Department/School</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMS 6023</td>
<td>Psychometric Theory</td>
<td>REMS 6013 or consent of instructor.</td>
<td>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.</td>
<td>3</td>
<td>Lecture: 3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
<tr>
<td>REMS 6033</td>
<td>Factor Analysis in Behavioral Research</td>
<td>REMS 6013 or equivalent.</td>
<td>In-depth analysis of principal components and factor analysis methods, including maximum likelihood methods. Confirmatory factor analysis methods are also introduced.</td>
<td>3</td>
<td>Lecture: 3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
<tr>
<td>REMS 6320</td>
<td>Doctoral Seminar in REMS</td>
<td>Permission of instructor.</td>
<td>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.</td>
<td>1-3</td>
<td>Lecture: 3</td>
<td>Graduate</td>
<td>Independent Study</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
<tr>
<td>REMS 6373</td>
<td>Program Evaluation</td>
<td>REMS 5013 and admission to a doctoral level program or consent of instructor.</td>
<td>Contexts, purposes and techniques of evaluating educational programs. Evaluation design, information collection, analysis, reporting and uses of results for programs ranging from individual lessons to nationwide multi-year projects. Special emphasis on evaluation requirements of federally funded programs. Previously offered as ABSE 6373.</td>
<td>3</td>
<td>Lecture: 3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
<tr>
<td>REMS 6383</td>
<td>Program Evaluation II</td>
<td>REMS 6373</td>
<td>Practical application of principles and standards by conducting a program evaluation.</td>
<td>3</td>
<td>Lecture: 3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
<tr>
<td>REMS 6663</td>
<td>Applied Multivariate Research in Behavioral Studies</td>
<td>REMS 6013 or consent of instructor.</td>
<td>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.</td>
<td>3</td>
<td>Lecture: 3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
<tr>
<td>REMS 6673</td>
<td>Item Response Theory</td>
<td>REMS 6003 and REMS 6023 or consent of instructor.</td>
<td>Concepts, theory, and application of item response theory (IRT) in educational and psychological fields with computer applications for data analysis.</td>
<td>3</td>
<td>Lecture: 3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
<tr>
<td>REMS 6683</td>
<td>Multilevel Modeling Methods in Education</td>
<td>REMS 5953, REMS 6003, REMS 6013 or consent of instructor.</td>
<td>Multilevel modeling analyses relevant to research in educational and related sciences. Emphasis on practical, hands-on development, analysis, and interpretation of multilevel models.</td>
<td>3</td>
<td>Lecture: 3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
<tr>
<td>REMS 6693</td>
<td>Structural Equation Modeling for Behavioral and Educational Research</td>
<td>REMS 6003, REMS 6013, REMS 6033, and REMS 6663 or permission of instructor.</td>
<td>Concepts, theory, and application of SEM in behavioral research with computer applications for data analysis.</td>
<td>3</td>
<td>Lecture: 3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
<tr>
<td>REMS 6850</td>
<td>Directed Reading</td>
<td>Consent of instructor.</td>
<td>Directed reading for students with advanced graduate standing. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.</td>
<td>1-6</td>
<td>Other: 1</td>
<td>Graduate</td>
<td>Independent Study</td>
<td>Educ Found Leadersh &amp; Aviation</td>
</tr>
</tbody>
</table>