# Educational Research Methodology, Doctoral Minor

## Program Requirements

**Required:** 15 credit hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERM 600</td>
<td>Validity and Validation</td>
<td></td>
</tr>
<tr>
<td>ERM 633</td>
<td>Second Language Assessment and Testing</td>
<td></td>
</tr>
<tr>
<td>ERM 636</td>
<td>Advanced Studies in Second Language Testing</td>
<td></td>
</tr>
<tr>
<td>ERM 642</td>
<td>Evaluation of Educational Programs</td>
<td></td>
</tr>
<tr>
<td>ERM 643</td>
<td>Applied Educational Evaluation</td>
<td></td>
</tr>
<tr>
<td>ERM 667</td>
<td>Foundations of Educational Measurement Theory</td>
<td></td>
</tr>
<tr>
<td>ERM 668</td>
<td>Survey Research Methods in Education</td>
<td></td>
</tr>
<tr>
<td>ERM 669</td>
<td>Item Response Theory</td>
<td></td>
</tr>
<tr>
<td>ERM 675</td>
<td>Data Presentation and Reporting</td>
<td></td>
</tr>
<tr>
<td>ERM 680</td>
<td>Intermediate Statistical Methods in Education</td>
<td></td>
</tr>
<tr>
<td>ERM 681</td>
<td>Design and Analysis of Educational Experiments</td>
<td></td>
</tr>
<tr>
<td>ERM 682</td>
<td>Multivariate Analysis</td>
<td></td>
</tr>
<tr>
<td>ERM 685</td>
<td>R for Education and the Social Sciences</td>
<td></td>
</tr>
<tr>
<td>ERM 726</td>
<td>Advanced Topics in Educational Measurement</td>
<td></td>
</tr>
<tr>
<td>ERM 727</td>
<td>Computer-Based Testing: Methods and Applications</td>
<td></td>
</tr>
<tr>
<td>ERM 728</td>
<td>Exploratory and Confirmatory Factor Analytic Methods for Scale Construction</td>
<td></td>
</tr>
<tr>
<td>ERM 729</td>
<td>Advanced Item Response Theory</td>
<td></td>
</tr>
<tr>
<td>ERM 731</td>
<td>Structural Equation Modeling in Education</td>
<td></td>
</tr>
<tr>
<td>ERM 732</td>
<td>Hierarchical Linear Modeling</td>
<td></td>
</tr>
<tr>
<td>ERM 734</td>
<td>Equating</td>
<td></td>
</tr>
<tr>
<td>ERM 735</td>
<td>Multidimensional Item Response Theory</td>
<td></td>
</tr>
<tr>
<td>ERM 742</td>
<td>Advanced Topics in the Evaluation of Educational Programs</td>
<td></td>
</tr>
<tr>
<td>ERM 750</td>
<td>Case Study Methods in Educational Research</td>
<td></td>
</tr>
</tbody>
</table>