Name: 
ID#:

**COMPETENCY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>5310</td>
<td>MATH 3311 Linear Algebra</td>
</tr>
<tr>
<td>5310</td>
<td>MATH 3342 or Statistical modeling and Data Analysis</td>
</tr>
<tr>
<td></td>
<td>3345 or Applied Probability and Statistics</td>
</tr>
<tr>
<td>MATH</td>
<td>2415 CALCULUS III</td>
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**CORE COURSES (12 HOURS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Grade</th>
<th>HRS.</th>
<th>TERM</th>
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<tbody>
<tr>
<td>MATH 5341</td>
<td>STATISTICAL METHODS &amp; DATA ANALYSIS</td>
<td>3</td>
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<tr>
<td>MATH 5342</td>
<td>LINEAR STATISTICAL MODELS</td>
<td>3</td>
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<tr>
<td>MATH 5343</td>
<td>MATHEMATICAL THEORY of STATISTICS</td>
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<td>MATH 5345</td>
<td>COMPUTATIONAL METHODS FOR STATISTICS</td>
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**ELECTIVES from MATH or closely related field (15-18 SCH)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Grade</th>
<th>HRS.</th>
<th>TERM</th>
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<tbody>
<tr>
<td>MATH 5333</td>
<td>NUMERICAL LINEAR ALGEBRA</td>
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<tr>
<td>MATH 5336</td>
<td>ADVANCED DIFFERENTIAL EQUATIONS</td>
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<td>MATH 5337</td>
<td>THEORY &amp; APPLICATIONS OF PD EQUATIONS</td>
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<td>MATH 5339</td>
<td>NUMERICAL ANALYSIS</td>
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<td>MATH 5348</td>
<td>OPTIMIZATION</td>
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<tr>
<td>MATH 5351</td>
<td>REAL ANALYSIS</td>
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<tr>
<td>MATH 5360</td>
<td>COMBINATORICS AND GRAPH THEORY</td>
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<td>MATH 5375</td>
<td>APPLIED ANALYSIS</td>
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<tr>
<td>MATH 5993</td>
<td>LITERATURE REVIEW &amp; RESEARCH (1-9 SCH variable)</td>
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<tr>
<td>MATH 6344</td>
<td>SPATIAL STATISTICS</td>
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**THESIS (6-9 HOURS)**

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<tbody>
<tr>
<td>MATH 5994</td>
<td>PROPOSAL RESEARCH (1-3 credits)</td>
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<tr>
<td>MATH 5995</td>
<td>THESIS or</td>
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<tr>
<td>MATH 5997</td>
<td>PROJECT</td>
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**TOTAL HOURS**: 36

**GPA (MIN. 3.0)**:  

Print and Sign name

Student: ______________________ date: ____________

Faculty Advisor: ______________________ date: ____________

Dept Chair or Prog. Coord.*: ______________________ date: ____________