## Statistics (PhD)

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 779</td>
<td>Advanced Probability for Statistical Inference</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>ST 793</td>
<td>Advanced Statistical Inference</td>
<td></td>
<td></td>
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<tr>
<td>ST 758</td>
<td>Computation for Statistical Research</td>
<td></td>
<td></td>
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<tr>
<td>ST 841</td>
<td>Statistical Consulting</td>
<td></td>
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</table>

**Ethics Sequence**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 810 &amp; PHI 816</td>
<td>Advanced Topics in Statistics and Introduction to Research Ethics (Ethics in Statistics)</td>
<td>1</td>
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</tbody>
</table>

**Core Elective Courses**

Select nine credit hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>ST 732</td>
<td>Longitudinal Data Analysis</td>
<td></td>
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<tr>
<td>ST 733</td>
<td>Spatial Statistics</td>
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<tr>
<td>ST 740</td>
<td>Bayesian Inference and Analysis</td>
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<tr>
<td>ST 746</td>
<td>Introduction to Stochastic Processes</td>
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<tr>
<td>ST 790</td>
<td>Advanced Special Topics</td>
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</table>

**Supporting Elective Courses**

Select a minimum of three credit hours of coursework approved in conjunction with the academic committee.

**Additional Courses**

"Additional Courses" are approved in conjunction with the academic committee to meet 72 total hours.

**Total Hours**

72

1. Unless student has taken ST 542 Statistical Practice
2. A 500-level or 700-level course in either statistics or another department with material relevant to the student’s plan of work. Examples include ST 520, ST 733, ST 744 and ST 745.
3. Additional courses may include ST 895 and courses taken from a Master of Statistics or Master of Science in Statistics degree at NCSU.

### Faculty

- Dennis D. Boos
- Marie Davidian
- Sujit K. Ghosh
- Subhashis Ghosal
- Kevin Gross
- Marcia Lynn Gumpertz
- Jacqueline M. Hughes-Oliver
- Eric Benjamin Laber
- Wenbin Lu
- Ryan G. Martin
- Spencer V. Muse
- Jason A. Osborne
- Brian J. Reich
- Erin Mary Schliep
- Kimberly Sellers
- Rui Song
- Ana-Maria Staicu
- Leonard A. Stefanski
- Jeffrey L. Thorne
- Jung-Ying Tzeng
- Alyson Gabbard Wilson
- Fred Andrew Wright
- Daowen Zhang
- Xinge Jessie Jeng
- Arnab Maity
- Donald Eugene Kemp Martin
- Thomas W. Reiland
- Charles Eugene Smith
- Eric C. Chi
- Emily Hector
- Karl Timothy LeRoy Pazdernik
- Srijan Sengupta
Assistant Professors

Annie Booth
Nathaniel Josephs