### Statistics (PhD)

#### Degree Requirements

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

**Ethics Sequence**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards Required Course Work</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>12</td>
<td>12</td>
</tr>
</tbody>
</table>

**Core Elective Courses**

Select nine credit hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards Required Course Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 732</td>
<td>Longitudinal Data Analysis</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>ST 733</td>
<td>Spatial Statistics</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>ST 740</td>
<td>Bayesian Inference and Analysis</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>ST 746</td>
<td>Introduction To Stochastic Processes</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>ST 790</td>
<td>Advanced Special Topics</td>
<td>9</td>
<td>9</td>
</tr>
</tbody>
</table>

**Supporting Elective Courses**

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards Required Course Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 895</td>
<td>Advanced Special Topics</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Courses**

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

**Total Hours**

72

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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

#### Full Professors

- 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
- Rui Song
- Ana-Maria Staicu
- Leonard A. Stefanski
- Jeffrey L. Thorne
- Jung-Ying Tzeng
- Alyson Gabbard Wilson
- Fred Andrew Wright
- Daowen Zhang

### Associate Professors

- Xinge Jessie Jeng
- Arnab Maity
- Donald Eugene Kemp Martin
- Thomas W. Reiland
- Charles Eugene Smith

### Assistant Professors

- Eric C. Chi
- Emily Hector
Srijan Sengupta
Jonathan W. Stallrich
Minh Tang
Jonathan Paul Williams
Luo Xiao
Shu Yang

**Practice/Research/Teaching Professors**
Jonathan W. Duggins
Emily H. Griffith
Herle M. McGowan
Logan J. Opperman
Justin B. Post
Paul R. Savariappan
Shuling Wang

**Emeritus Faculty**
William Reid Atchley
Peter Bloomfield
Cavell Brownie
David Alan Dickey
Thomas Michael Gerig
Harvey J. Gold
Thomas Johnson
John F. Monahan
Kenneth Hugh Pollock
Charles P. Quesenberry
John Oren Rawlings
Don L. Ridgeway
Moon Won Suh
William H. Swallow
Anastasios A. Tsiatis
John L. Wasik

**Adjunct Faculty**
Howard D. Bondell
Soumendra Nath Lahiri