# 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>
</tr>
<tr>
<td>ST 758</td>
<td>Computation for Statistical Research</td>
<td></td>
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<tr>
<td>ST 841</td>
<td>Statistical Consulting ¹</td>
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### Ethics Sequence

- ST 810 & PHI 816: Advanced Topics in Statistics and Introduction to Research Ethics (Ethics in Statistics)

### Core Elective Courses

Select nine credit hours of the following:

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

### Supporting Elective Courses

Select a minimum of three credit hours of coursework approved in conjunction with the academic committee ²

### Additional Courses

"Additional Courses" are approved in conjunction with the academic committee to meet 72 total hours ³

### 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
- 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
- Jonathan W. Stallrich
Minh Tang
Jonathan Paul Williams
Luo Xiao
Shu Yang
Jonathan W. Duggins
Emily H. Griffith
Herle M. McGowan
Logan J. Opperman
Justin B. Post
Paul R. Savariappan
Shuting Wang
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
Howard D. Bondell
Soumendra Nath Lahiri
Alison Anne Motsinger-Reif
Eric A. Stone
Yichao Wu