# Statistics (MR): Statistical Genetics Concentration

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
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<tr>
<td>ST 501</td>
<td>Fundamentals of Statistical Inference I</td>
<td>21</td>
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<tr>
<td>ST 502</td>
<td>Fundamentals of Statistical Inference II</td>
<td>21</td>
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<tr>
<td>ST 503</td>
<td>Fundamentals of Linear Models and Regression</td>
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<tr>
<td>ST 542</td>
<td>Statistical Practice</td>
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<tr>
<td>ST 555</td>
<td>Statistical Programming I</td>
<td>21</td>
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<tr>
<td>ST 517 &amp; ST 518</td>
<td>Applied Statistical Methods I</td>
<td>21</td>
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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>Required Courses</td>
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<td>Select one of the following:</td>
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<tr>
<td>ST 520</td>
<td>Statistical Principles of Clinical Trials</td>
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<tr>
<td>ST 540</td>
<td>Applied Bayesian Analysis</td>
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<tr>
<td>ST 711</td>
<td>Design Of Experiments</td>
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<tr>
<td>ST 744</td>
<td>Categorical Data Analysis</td>
<td>21</td>
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<tr>
<td>ST 745</td>
<td>Analysis of Survival Data</td>
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Select six credit hours of the following:

<table>
<thead>
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<th>Code</th>
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<tbody>
<tr>
<td>ST 721</td>
<td>Genetic Data Analysis</td>
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<tr>
<td>ST 590</td>
<td>Special Topics (Introduction to Bioinformatics)</td>
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<td>ST 590</td>
<td>Special Topics (Bioinformatics II)</td>
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<tr>
<td>GN 703</td>
<td>Population and Quantitative Genetics</td>
<td>21</td>
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</tbody>
</table>

## 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
Shuting 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
Alison Anne Motsinger-Reif
Eric A. Stone
Yichao Wu