# 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>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST 501</td>
<td>Fundamentals of Statistical Inference I</td>
<td>3</td>
<td>Core Courses</td>
</tr>
<tr>
<td>ST 502</td>
<td>Fundamentals of Statistical Inference II</td>
<td>3</td>
<td>Core Courses</td>
</tr>
<tr>
<td>ST 503</td>
<td>Fundamentals of Linear Models and Regression</td>
<td>3</td>
<td>Core Courses</td>
</tr>
<tr>
<td>ST 542</td>
<td>Statistical Practice</td>
<td>3</td>
<td>Core Courses</td>
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<tr>
<td>ST 555</td>
<td>Statistical Programming I</td>
<td>3</td>
<td>Core Courses</td>
</tr>
<tr>
<td>ST 517 &amp; ST 518</td>
<td>Applied Statistical Methods I and Applied Statistical Methods II</td>
<td>6</td>
<td>Core Courses</td>
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</tbody>
</table>

## Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
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<tr>
<td>Select one of the following:</td>
<td></td>
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<tr>
<td>ST 520</td>
<td>Statistical Principles of Clinical Trials</td>
<td>3</td>
<td>Concentration</td>
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<tr>
<td>ST 540</td>
<td>Applied Bayesian Analysis</td>
<td>3</td>
<td>Concentration</td>
</tr>
<tr>
<td>ST 711</td>
<td></td>
<td>3</td>
<td>Concentration</td>
</tr>
<tr>
<td>ST 744</td>
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<td>3</td>
<td>Concentration</td>
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<tr>
<td>ST 745</td>
<td>Analysis of Survival Data</td>
<td>3</td>
<td>Concentration</td>
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<td>Select six credit hours of the following:</td>
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<tr>
<td>ST 721</td>
<td>Genetic Data Analysis</td>
<td>3</td>
<td>Concentration</td>
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<tr>
<td>ST 590</td>
<td>Special Topics (Introduction to Bioinformatics)</td>
<td>3</td>
<td>Concentration</td>
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<tr>
<td>ST 590</td>
<td>Special Topics (Bioinformatics II)</td>
<td>3</td>
<td>Concentration</td>
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<tr>
<td>GN 703</td>
<td>Population and Quantitative Genetics</td>
<td>3</td>
<td>Concentration</td>
</tr>
</tbody>
</table>

Total Hours: 30

## Faculty

**Department Head**

K. Sellers

**Associate Department Heads**

E. Griffith

W. Lu

**Director of Statistics Graduate Programs**

W. Lu

**Director of Statistics Undergraduate Programs**

S. Muse

**Director of Online Programs**

J. Post

**Director of Bioinformatics Research Center**

F. Wright

**Director of Bioinformatics Graduate Program**

S. Muse

**R.A. Fisher Distinguished Professor of Statistics**

L. Stefanski

**J. Stuart Hunter Distinguished Professor**

M. Davidian
Cox Distinguished Professor of Statistics
B. Reich

Alumni Distinguished Graduate Professors
M. Davidian
A. Wilson

Alumni Distinguished Undergraduate Professors
T. Reiland

Goodnight Innovation Distinguished Professor
F. Wright

University Distinguished Professor
S. Ghoshal

Professors
D.D. Boos
M. Davidian
S. Ghosal
S.K. Ghosh
K. Gross
M. Gumpertz
W. Lu
A. Malty
R. Martin
S. Muse
J. Osborne
B. Reich
K. Sellers
A. Staicu
L.A. Stefanski
J.-Y. Tzeng

Associate Professors
J. Jeng
D. Martin
T.W. Reiland
E. Schliep
S. Sengupta
C.E. Smith
J. Stallrich
L. Xiao
S. Yang

Assistant Professors
A. Booth
E. Hector
N. Josephs
L. Opperman
M. Tang
J. Williams

Teaching Associate Professors
J. Duggins
H. McGowan
J. Post
P. Savariappan

Teaching Assistant Professors
J. Duggins
E. Meyer
L. Opperman
S. Wang
Associate Professor of the Practice
E. Griffith

Lecturers
D. Harris
R. Danaher
T. Johnson
M. Winters

Professor Emeriti
P. Bloomfield
D. Dickey
T. Gerig
M. Gumpertz
J. Hughes-Oliver
J. Monahan
W. Swallow
J. Thorne
A. Tsiatis

Associate and Adjunct Faculty
H. Bondell
J. Guiness
I. Ipsen
A. Motsinger-Reif
Y. Zhou