## Statistics (MR): Environmental Statistics Concentration

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Core Courses</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 501</td>
<td></td>
<td>Fundamentals of Statistical Inference I</td>
<td>21</td>
<td></td>
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<tr>
<td>ST 502</td>
<td></td>
<td>Fundamentals of Statistical Inference II</td>
<td></td>
<td></td>
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<tr>
<td>ST 503</td>
<td></td>
<td>Fundamentals of Linear Models and Regression</td>
<td></td>
<td></td>
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<tr>
<td>ST 542</td>
<td></td>
<td>Statistical Practice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST 555</td>
<td></td>
<td>Statistical Programming I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST 517 &amp; ST 518</td>
<td></td>
<td>Applied Statistical Methods I and Applied Statistical Methods II</td>
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</tbody>
</table>

### Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Statistics Elective Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 533/733</td>
<td>Applied Spatial Statistics</td>
</tr>
<tr>
<td>ST 711</td>
<td>Applied Time Series</td>
</tr>
<tr>
<td>ST 534</td>
<td>Applied Multivariate and Longitudinal Data Analysis</td>
</tr>
<tr>
<td>ST 744</td>
<td>Analysis of Survival Data</td>
</tr>
</tbody>
</table>

**Supporting Elective Courses**

*“Supporting Elective Courses” are approved in conjunction with the academic committee.*

| Total Hours | 30 |

* Elective courses can fall within the following subjects: Environmental Policy, Economics, Epidemiology, Toxicology/Risk Assessment, Mathematics, MEAS, GIS, Botany & Ecology, Biomathematics, and Zoology.

### 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. Ghosal

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

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E. Schliep
S. Sengupta
C.E. Smith
J. Stallrich
L. Xiao
S. Yang

Assistant Professors
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N. Josephs
L. Opperman
M. Tang
J. Williams

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

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L. Opperman
S. Wang

Associate Professor of the Practice
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Lecturers
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R. Danaher
T. Johnson
M. Winters

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

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