# Biomathematics (MS)

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMA 567</td>
<td>Modeling of Biological Systems</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>or BMA 773</td>
<td>Stochastic Modeling</td>
<td></td>
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</tr>
<tr>
<td>or BMA 774</td>
<td>Partial Differential Equation Modeling in Biology</td>
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<tr>
<td>BMA 771</td>
<td>Biomathematics I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMA 772</td>
<td>Biomathematics II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMA 801</td>
<td>Seminar ¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Biological Science Courses</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;Biological Science Courses&quot; will be approved in conjunction with the academic committee</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>Statistics Courses</strong></td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Required &quot;Statistics Courses&quot; will be approved in conjunction with the academic committee – see &quot;Statistic Course Options&quot; listed below</td>
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<tr>
<td></td>
<td><strong>Mathematical Science Courses</strong></td>
<td>6</td>
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<td>&quot;Mathematical Science Courses&quot; will be approved in conjunction with the academic committee</td>
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<tr>
<td></td>
<td><strong>Written Thesis</strong></td>
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<td>Students must complete a written thesis to receive a Master of Science Degree</td>
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<td><strong>Total Hours</strong></td>
<td>30</td>
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</table>

¹ BMA 801 Seminar must be repeated to meet the two credit hour requirements.

### Statistics Course Options

#### Option 1

<table>
<thead>
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<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tbody>
<tr>
<td>ST 511</td>
<td>Statistical Methods For Researchers I</td>
<td>3</td>
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<tr>
<td>ST 512</td>
<td>Statistical Methods For Researchers II</td>
<td>3</td>
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</table>

Total Hours 6

#### Option 2

<table>
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<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tbody>
<tr>
<td>ST 512</td>
<td>Statistical Methods For Researchers II (R)</td>
<td>3</td>
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</tbody>
</table>

Total Hours 3

## Faculty

### Full Professors
- Kevin Gross
- Mansoor Abbas Haider
- Carol K. Hall
- Jason M. Haugh
- George R. Hess
- Alun L. Lloyd
- Sharon R. Lubkin
- Spencer V. Muse
- Mette Olufsen
- Brian J. Reich
- Seth M. Sullivant
- Jeffrey L. Thorne
- Hien Trong Tran
- Zhaobang Zeng

### Associate Professors
- Randall Brian Langerhans
- Cristina Lanzas
- Charles Eugene Smith
- Rosangela Sozzani

### Assistant Professors
- Belinda Sena Akpa
- Zixuan Cang
- Jie Cao
- Kevin Bryant Flores
- David Alan Rasmussen
Emeritus Faculty
William Reid Atchley
John William Bishir
Marlene L. Hauck
Gail G. McRae
Kenneth Hugh Pollock
Jim E. Riviere
Henry E. Schaffer
James Francis Selgrade
Ronald Edwin Stinner

Adjunct Faculty
John Edward Banks
Georgiy Bobashev
Brian Ernest Carlson
James W. Gilliam
Nicholas M. Haddad
Thomas D. Husmeier
Dustin Kapraun
Julia S. Kimbell
W. Owen McMillan III
Suzanne Marie Lenhart
Johnny T. Ottesen
Charles Puelz
Eric A. Stone