Biomathematics (PhD)

Degree Requirements

Students may choose from the degree tracks below to complete coursework within a focus area.

Degrees earned will be distributed as: "Doctor of Philosophy in Biomathematics" without track specifications.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
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<tr>
<td>BMA 771</td>
<td>Biomathematics I</td>
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<tr>
<td>BMA 772</td>
<td>Biomathematics II</td>
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<td>BMA 773</td>
<td>Stochastic Modeling</td>
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<td>BMA 774</td>
<td>Partial Differential Equation Modeling in Biology</td>
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<tr>
<td>BMA 801</td>
<td>Seminar ¹</td>
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<td>Biological Sciences Courses</td>
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<td>&quot;Biological Science Courses&quot; will be approved in conjunction with the academic committee ²</td>
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<td>Statistics Courses</td>
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<td>Focus Area Track</td>
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<td>See “Focus Area Tracks” ³</td>
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¹ BMA 801 Seminar needs to be repeated three times to meet the three credit hour requirement.
² Must represent at least two different perspectives.
³ Must include at least one 700 level course.

Statistic Course Options

Option 1

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<tr>
<th>Code</th>
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<tr>
<td>ST 511</td>
<td>Statistical Methods For Researchers I</td>
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<tr>
<td>ST 512</td>
<td>Statistical Methods For Researchers II</td>
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Option 2

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<td>Option Two</td>
<td>ST 512 Statistical Methods For Researchers II (R)</td>
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Focus Track Areas

Biological Sciences

Select five courses, minimum of one form each of the following: 15

Genetics and Development

Biophysical and Biomedical Sciences and Physiology

Ecology and Evolution

Total Hours 15

Mathematical Methods

Select five courses in the following or co-major: 15

- Mathematics
- Statistics
- Operations Research
- Computer Studies

Total Hours 15

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
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
James W. Gilliam
Nicholas M. Haddad
Thomas D. Husmeier
Julia S. Kimbell
W. Owen McMillan III
Johnny T. Ottesen
Eric A. Stone