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>
<th>Counts towards</th>
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<tbody>
<tr>
<td>BMA 771</td>
<td>Biomathematics I</td>
<td>3</td>
<td></td>
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<tr>
<td>BMA 772</td>
<td>Biomathematics II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BMA 773</td>
<td>Stochastic Modeling</td>
<td>3</td>
<td></td>
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<tr>
<td>BMA 774</td>
<td>Partial Differential Equation Modeling in Biology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BMA 801</td>
<td>Seminar</td>
<td>3</td>
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Biological Sciences Courses

"Biological Science Courses" will be approved in conjunction with the academic committee

Statistics Courses

Required "Statistics Courses" will be approved in conjunction with the academic committee – see "Statistic Course Options" listed below

Mathematical Science Courses

"Mathematical Science Courses" will be approved in conjunction with the academic committee

Focus Area Track

See "Focus Area Tracks"

Total Hours

51-54

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

<table>
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<tr>
<td>ST 511</td>
<td>Statistical Methods For Researchers I</td>
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Total Hours

6

Option Two

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<tr>
<td>ST 512</td>
<td>Statistical Methods For Researchers II (R)</td>
<td>3</td>
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</table>

Total Hours

3

Focus Track Areas

Biological Sciences

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

- Cellular and Molecular Biology
- 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:

- 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
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
Brian Ernest Carlson
James W. Gilliam
Nicholas M. Haddad
Thomas D. Husmeier
Julia S. Kimbell
W. Owen McMillan III
Suzanne Marie Lenhart