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.

Code	Title	Hours
Required Courses		**15**
BMA 771	Biomathematics I	
BMA 772	Biomathematics II: Stochastic Models in Biology	
BMA 773	Stochastic Modeling	
BMA 774	Partial Differential Equation Modeling in Biology	
BMA 801	Seminar [1]	
Biological Sciences Courses		**9**
	"Biological Science Courses" will be approved in conjunction with the academic committee [2]	
Statistics Courses		**3-6**
Required "Statistics Courses" will be approved in conjunction with the academic committee – see "Statistic Course Options" listed below		
Mathematical Science Courses		**9**
"Mathematical Science Courses" will be approved in conjunction with the academic committee		
Focus Area Track		**15**
See "Focus Area Tracks" [3]		
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

Code	Title	Hours
ST 511	Statistical Methods For Researchers I	3
ST 512	Statistical Methods For Researchers II	3
Total Hours		**6**

Option 2

Code	Title	Hours
Option Two		
ST 512	Statistical Methods For Researchers II (R)	3
Total Hours		**3**

Focus Track Areas

Biological Sciences

Code	Title	Hours
Select five courses, minimum of one form each of the following:		**15**
	Cellular and Molecular Biology	
	Genetics and Development	
	Biophysical and Biomedical Sciences and Physiology	
	Ecology and Evolution	
Total Hours		**15**

Mathematical Methods

Code	Title	Hours
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

Gavin Clay Conant

Randall Brian Langerhans

Cristina Lanzas

Gustavo Machado

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