

Biological and Agricultural Engineering (PhD): Systems Analysis Concentration

Degree Requirement

Code	Title	Hours	Counts towards
Required Courses			5
BAE 791	Doctoral Research Methods I		
BAE 792	Doctoral Research Methods II		
BAE 885	Doctoral Supervised Teaching		
Mathematics / Statistics / Biomathematics Courses			6
"Mathematics / Statistics / Biomathematics Courses" are determined in conjunction with the academic committee			
Minor Courses			9
Students must select a minor, by which courses are determined in conjunction with the academic committee			
Elective Courses ¹			52
"Elective Courses" are determined in conjunction with the academic committee to meet the 72 total credit hours			
Total Hours			72

¹ Students with a previous Master's Degree are only required to complete 54 total hours

Concentration Elective Courses

Code	Title	Hours	Counts towards
A minimum of 6 hours of elective courses must be taken from the following courses:			6
BAE 501	Sensors and Controls	3	
BAE 527/427			
BAE 535	Precision Agriculture Technology	3	

BAE 541	Foundation Tools to Agriculture, Food and Life Sciences Data	3
BAE 542/542	Advanced Analytics to Agriculture, Food and Life Sciences Data	3
BAE 555	R Coding for Data Management and Analysis	3
BAE 565	Environmental and Agricultural Analytics and Modeling	3
GIS 512	Introduction to Environmental Remote Sensing	3
MEA 582	Geospatial Modeling	3

Faculty

Geng (Frank) Bai, *Assistant Professor*
Area of Research: Precision and Digital Agriculture

Francois Philippe Birgand

Michael D. Boyette

Michael R. Burchell II

Celso Francisco Castro Bolinaga

Jay Jiayang Cheng

John J. Classen

Barbara A. Doll

Grant H. Ellington

Garey Alton Fox

Khara Deanne Grieger

Lucie S. G. Guertault

Scott A. Hale

Steven George Hall

William F. Hunt III

Daniela Jones

Praveen Kolar

Suzanne McKay Leonard

Chad Ashley Poole

Gary T. Roberson

Natalie G. Nelson Sagues

Ryan Sartor, *Assistant Professor*

Area of Research: Bioprocess Engineering

Chadi Sayde

Sanjay Bikram Shah

Mahmoud A. N. A. N. Sharara

Lingjuan Wang Li

Jason Kellam Ward

Lirong Xiang

Sierra Young

Mohamed A. Youssef

Wenqiao Yuan

George Maynard Chescheir III

Robert O. Evans Jr.

Garry L. Grabow

Rodney L. Huffman

Gregory Donald Jennings

Richard W. Skaggs

Jean Spooner

Larry F. Stikeleather

Daniel H. Willits

Practice/Research/Teaching Professor

Otto DeBruhl Simmons III

Adjunct Professors

Christopher R Daubert

Sheila Marie Saia

Ratna Rani Sharma

Adjunct Associate Professor

Wesley Mark Porter

Adjunct Assistant Professor

Kristina Hopkins