

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	Metabolic Systems Analysis		
BAE 535	Precision Agriculture Technology	3	

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

Faculty

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Practice/Research/Teaching Professors

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