# Biological and Agricultural Engineering (PhD): Systems Analysis Concentration

## Degree Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE 791</td>
<td>Doctoral Research Methods I</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>BAE 792</td>
<td>Doctoral Research Methods II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BAE 885</td>
<td>Doctoral Supervised Teaching</td>
<td></td>
<td></td>
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</tbody>
</table>

### Mathematics / Statistics / Biomathematics Courses

"Mathematics / Statistics / Biomathematics Courses" are determined in conjunction with the academic committee.

### Minor Courses

Students must select a minor, by which courses are determined in conjunction with the academic committee.

### Elective Courses

"Elective Courses" are determined in conjunction with the academic committee to meet the 72 total credit hours.

### Total Hours

72

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

## Concentration Elective Courses

A minimum of 6 hours of elective courses must be taken from the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE 501</td>
<td>Sensors and Controls</td>
<td>3</td>
</tr>
<tr>
<td>BAE 527/427</td>
<td>Metabolic Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BAE 535</td>
<td>Precision Agriculture Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

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## Faculty

### Full Professors

- Michael D. Boyette
- Michael R. Burchell II
- Jay Jiayang Cheng
- Mari S. Chinn
- Garey Alton Fox
- Scott A. Hale
- William F. Hunt III
- Lingjuan Wang Li
- Gary T. Roberson
- Sanjay Bikram Shah
- Mohamed A. Youssef
- Wenqiao Yuan

### Associate Professors

- Francois Philippe Birgand
- John J. Classen
- Barbara A. Doll
- Praveen Kolar

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**Assistant Professors**

Celso Francisco Castro Bolinaga  
Grant H. Ellington  
Lucie S. G. Guertault  
Daniela Jones  
Suzanne McKay Leonard  
Chad Ashley Poole  
Natalie G. Nelson Sagues  
Chadi Sayde  
Mahmoud A. N. A. N. Sharara  
Jason Kellam Ward  
Sierra Young  

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**Practice/Research/Teaching Professors**

Otto DeBruhl Simmons III  

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**Emeritus Faculty**

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  

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**Adjunct Professors**

Christopher R Daubert  
Ratna Rani Sharma