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

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE 591</td>
<td>Master's Research Methods I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BAE 592</td>
<td>Master's Research Methods II</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Math / Statistics / Biomathematics Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The required “Mathematics / Statistics / Biomathematics Courses” are determined in conjunction with the academic committee.</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

### Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>“Elective Courses” are determined in conjunction with the academic committee to meet the 30 total credit hours.</td>
<td>22</td>
<td></td>
</tr>
</tbody>
</table>

### Total Hours

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1. Minimum of 20 credit hours must come from 500-level and above courses.

## Concentration Electives

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>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE 501</td>
<td>Sensors and Controls</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BAE 527/427</td>
<td>Metabolic Systems Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BAE 535</td>
<td>Precision Agriculture Technology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BAE 541</td>
<td>Foundation Tools to Agriculture, Food and Life Sciences Data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BAE 542/542</td>
<td>Advanced Analytics to Agriculture, Food and Life Sciences Data</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

## Faculty

### Full Professors

- **Michael D. Boyette**
- **Michael R. Burchell II**
- **Jay Jiayang Cheng**
- **Mari S. Chinn**
- **Gary 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**
- **Steven George Hall**
- **Praveen Kolar**

### 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

**Practice/Research/Teaching Professors**
Otto DeBruhl Simmons III

**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

**Adjunct Professors**
Christopher R Daubert
Ratna Rani Sharma