# 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><strong>Required Courses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<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>2</td>
<td></td>
</tr>
<tr>
<td><strong>Math / Statistics / Biomathematics Courses</strong></td>
<td></td>
<td>6</td>
<td></td>
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<tr>
<td><strong>Elective Courses</strong></td>
<td></td>
<td>22</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td>30</td>
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</tbody>
</table>

1. Minimum of 20 credit hours must come from 500-level and above courses
2. Maximum 6 hours S/U graded courses

## Concentration Electives

<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>
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<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>
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<tr>
<td>BAE 541</td>
<td>Foundation Tools to Agriculture, Food and Life Sciences Data</td>
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<tr>
<td>BAE 542/542</td>
<td>Advanced Analytics to Agriculture, Food and Life Sciences Data</td>
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</tbody>
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1. Minimum of 6 hours of elective courses must be taken from the following courses:

## Faculty

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

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
Sheila Marie Saia
Ratna Rani Sharma