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>
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<tbody>
<tr>
<td>BAE 591</td>
<td>Master's Research Methods I</td>
<td>2</td>
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<tr>
<td>BAE 592</td>
<td>Master's Research Methods II</td>
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<td></td>
<td><strong>Math / Statistics / Biomathematics Courses</strong></td>
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<td></td>
<td>The required “Mathematics / Statistics / Biomathematics Courses” are determined in conjunction with the academic committee</td>
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<td><strong>Elective Courses</strong></td>
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<td>“Elective Courses” are determined in conjunction with the academic committee to meet the 30 total credit hours</td>
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<td><strong>Total Hours</strong></td>
<td>30</td>
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1 Minimum of 20 credit hours must come from 500-level and above courses
2 Maximum 6 hours S/U graded courses

Concentration Electives

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BAE 501</td>
<td>Sensors and Controls</td>
<td>3</td>
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<td>BAE 527/427</td>
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<td>BAE 535</td>
<td>Precision Agriculture Technology</td>
<td>3</td>
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<td>BAE 541</td>
<td>Foundation Tools to Agriculture, Food and Life Sciences Data</td>
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<td>BAE 542/542</td>
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<td>BAE 555</td>
<td>R Coding for Data Management and Analysis</td>
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<tr>
<td>BAE 565</td>
<td>Environmental and Agricultural Analytics and Modeling</td>
<td>3</td>
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<td>GIS 512</td>
<td>Introduction to Environmental Remote Sensing</td>
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<td>MEA 582</td>
<td>Geospatial Modeling</td>
<td>3</td>
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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 Kollam 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