Major in Soil and Crop Sciences, Applied Information Technology Concentration

Applied Information Technology educates students in utilizing advanced information technology to make better decisions in crop, soil, and environmental management systems as well as meet the expanding needs and technological opportunities in industry (consulting/GIS/ GPS/remote sensing). Students will take course work in computer science, data management, business, and various electives in their discipline choice (crop science, soil science, animal science, horticulture, pest management, and related disciplines) to utilize application of advanced information technologies. This understanding will lead to improved environmental stewardship and profitability. Career opportunities exist with equipment companies, consulting firms, state and federal agencies, and agricultural data management firms.

Requirements

Effective Fall 2015

View Major Completion Map [http://wsnet.colostate.edu/CWIS608/Home/MajorCompletionMap]

<table>
<thead>
<tr>
<th>Freshman</th>
<th>AUCC</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 192 or 292</td>
<td>Orientation to Agricultural Systems Transfer Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BUS 150 or CS 110</td>
<td>Business Computing Concepts and Applications Personal Computing</td>
<td>3-4</td>
</tr>
<tr>
<td>BZ 120</td>
<td>Principles of Plant Biology (GT-SC2)</td>
<td>3A</td>
</tr>
<tr>
<td>CHEM 107</td>
<td>Fundamentals of Chemistry (GT-SC2)</td>
<td>3A</td>
</tr>
<tr>
<td>CHEM 108</td>
<td>Fundamentals of Chemistry Laboratory (GT-SC2)</td>
<td>3A</td>
</tr>
<tr>
<td>CIS 200</td>
<td>Business Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CO 150</td>
<td>College Composition (GT-CO2)</td>
<td>1A</td>
</tr>
<tr>
<td>MATH 117</td>
<td>College Algebra in Context I (GT-MA1)</td>
<td>1B</td>
</tr>
<tr>
<td>MATH 118</td>
<td>College Algebra in Context II (GT-MA1)</td>
<td>1B</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Logarithmic and Exponential Functions (GT-MA1)</td>
<td>1B</td>
</tr>
<tr>
<td>PH 110</td>
<td>Descriptive Physics (GT-SC2)</td>
<td>3A</td>
</tr>
<tr>
<td>SOCR 100</td>
<td>General Crops</td>
<td>4</td>
</tr>
<tr>
<td>SOCR 177</td>
<td>Applied Information Technology in Agriculture</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits: 30-31

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>AUCC</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREC 202</td>
<td>Agricultural and Resource Economics (GT-SS1)</td>
<td>3C</td>
</tr>
</tbody>
</table>

Total Credits: 30-31

Freshman

- CIS 210: Information Technology in Business
- CIS 240: Application Design and Development
- MATH 141: Calculus in Management Sciences (GT-MA1)
- PHIL 110: Logic and Critical Thinking (GT-AH3)
- SOCR 240: Introductory Soil Science
- SPCM 200: Public Speaking
- Arts and Humanities
- Global and Cultural Awareness
- Historical Perspectives

Total Credits: 31

Junior

- CO 300 or JTC 300: Writing Arguments (GT-CO3)
- LIFE 220 or 320: Fundamentals of Ecology (GT-SC2)
- CIS 320: Project Management for Information Systems
- FSHN 125 or 150: Food and Nutrition in Health
- NR 322: Introduction to Geographic Information Systems
- NR 323/GR 323: Applications of Global Positioning Systems
- STAT 301 or 307: Introduction to Statistical Methods
- SOCR Electives
- Electives

Total Credits: 29-31

Senior

- AREC 478: Agricultural Policy
- CIS 355 or STAT 372: Business Database Systems
- NR 423/GR 323: Applications of Global Positioning Systems
- SOCR 377: Geographic Information Systems in Agriculture
- SOCR 487: Internship
- SOCR 492: Seminar
- SOCR Electives
- Electives

Total Credits: 27-30

Program Total Credits: 120
Major in Soil and Crop Sciences, Applied Information Technology Concentration

Of the 9 SOCR elective credits and 17-18 general elective credits, 12 must be upper division (300- and 400-level). Select enough elective credits to bring program total to 120, of which 42 must be upper division.

Select from courses with the SOCR subject code, in consultation with advisor.