ANIMAL SCIENCES: FOOD ANIMAL PRODUCTION & MANAGEMENT, BS

for the degree of Bachelor of Science Major in Animal Sciences, Food Animal Production & Management concentration

The Food Animal Production and Management Concentration is designed for students intending to pursue a career in animal care and management or one of the associated food production industries. It emphasizes the scientific disciplines and the application of technology involved in animal production and animal products, as well as providing the opportunity to enhance a student's practical knowledge through business courses.

for the degree of Bachelor of Science Major in Animal Sciences, Food Animal Production & Management concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>RHET 105</td>
<td>Writing and Research (or equivalent) (see college Composition I requirement)</td>
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<tr>
<td>CMN 101</td>
<td>Public Speaking</td>
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<td></td>
<td><strong>Advanced Composition</strong></td>
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<tr>
<td></td>
<td>Select from campus approved list.</td>
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<tr>
<td></td>
<td><strong>Cultural Studies</strong></td>
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<tr>
<td></td>
<td>Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists.</td>
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<tr>
<td></td>
<td><strong>Foreign Language</strong></td>
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<td></td>
<td>Coursework at or above the third level is required for graduation.</td>
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<td><strong>Quantitative Reasoning I</strong></td>
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<td>Select one of the following:</td>
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<tr>
<td></td>
<td>MATH 220</td>
<td>Calculus</td>
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<td>MATH 221</td>
<td>Calculus I</td>
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<tr>
<td></td>
<td>MATH 234</td>
<td>Calculus for Business I</td>
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<td><strong>Quantitative Reasoning II</strong></td>
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<td>Select one of the following:</td>
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<tr>
<td></td>
<td>ACE 261</td>
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<tr>
<td></td>
<td>CPSC 241</td>
<td>Intro to Applied Statistics</td>
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<tr>
<td></td>
<td>ECON 202</td>
<td>Economic Statistics I</td>
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<tr>
<td></td>
<td>PSYC 235</td>
<td>Intro to Statistics</td>
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<td></td>
<td>STAT 100</td>
<td>Statistics</td>
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<td></td>
<td>SOC 280</td>
<td>Intro to Social Statistics</td>
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<tr>
<td></td>
<td><strong>Natural Sciences and Technology</strong></td>
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<tr>
<td></td>
<td>CHEM 102 &amp; CHEM 103</td>
<td>General Chemistry I and General Chemistry Lab I</td>
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<tr>
<td></td>
<td>CHEM 104 &amp; CHEM 105</td>
<td>General Chemistry II and General Chemistry Lab II</td>
</tr>
<tr>
<td></td>
<td>MCB 100 &amp; MCB 101</td>
<td>Introductory Microbiology and Intro Microbiology Laboratory</td>
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<tr>
<td></td>
<td><strong>Humanities and the Arts</strong></td>
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<tr>
<td></td>
<td>Courses selected from campus approved list</td>
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<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
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<tr>
<td></td>
<td>ECON 102</td>
<td>Microeconomic Principles</td>
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<tr>
<td></td>
<td>or ACE 100</td>
<td>Introduction to Applied Microeconomics</td>
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<tr>
<td></td>
<td>Additional social or behavioral science course; cannot be an economics course.</td>
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<tr>
<td></td>
<td><strong>ACES Required</strong></td>
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<td>ACES 101</td>
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<td><strong>Animal Sciences Required</strong></td>
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<td>ANSC 100</td>
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<td>Hours</td>
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<tr>
<td>ANSC 101</td>
<td>Contemporary Animal Issues</td>
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<td>ANSC 103</td>
<td>Working With Farm Animals</td>
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<tr>
<td>ANSC 221</td>
<td>Cells, Metabolism and Genetics</td>
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<tr>
<td>ANSC 222</td>
<td>Anatomy and Physiology</td>
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</tr>
<tr>
<td>ANSC 223</td>
<td>Animal Nutrition</td>
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<tr>
<td>ANSC 224</td>
<td>Animal Reproduction and Growth</td>
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<td>ANSC 298</td>
<td>Animal Science Careers and Professional Development</td>
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<tr>
<td>ANSC 398</td>
<td>UG Experiential Learning</td>
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<tr>
<td>ANSC 498</td>
<td>Integrating Animal Sciences</td>
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1. ANSC 398 only fulfills the degree requirement when taken for a standard letter grade.

**Food Animal Production and Management Concentration Required**

Select four of the following Applied Sciences courses: 12

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ANSC 201</td>
<td>Principles of Dairy Production</td>
</tr>
<tr>
<td>ANSC 204</td>
<td>Intro Dairy Cattle Evaluation</td>
</tr>
<tr>
<td>ANSC 205</td>
<td>World Animal Resources</td>
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<tr>
<td>ANSC 206</td>
<td>Horse Management</td>
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<tr>
<td>ANSC 211</td>
<td>Breeding Animal Evaluation</td>
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<tr>
<td>ANSC 215</td>
<td>Introduction to Animal Evaluation</td>
</tr>
<tr>
<td>ANSC 219</td>
<td>Meat Technology</td>
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<tr>
<td>ANSC 250</td>
<td>Companion Animals in Society</td>
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<tr>
<td>ANSC 301</td>
<td>Food Animal Production, Management, and Evaluation</td>
</tr>
<tr>
<td>ANSC 305</td>
<td>Human Animal Interactions</td>
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<tr>
<td>ANSC 306</td>
<td>Equine Science</td>
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<tr>
<td>ANSC 307</td>
<td>Companion Animal Management</td>
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<td>ANSC 309</td>
<td>Meat Production and Marketing</td>
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<td>ANSC 310</td>
<td>Meat Selection and Grading</td>
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<td>ANSC 312</td>
<td>Advanced Livestock Evaluation</td>
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<td>ANSC 313</td>
<td>Horse Appraisal</td>
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<tr>
<td>ANSC 314</td>
<td>Adv Dairy Cattle Evaluation</td>
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<td>ANSC 322</td>
<td>Livestock Feeds and Feeding</td>
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<td>ANSC 360</td>
<td>Technology and Management: The Basics</td>
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<td>ANSC 370</td>
<td>Companion Animal Policy</td>
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<td>ANSC 400</td>
<td>Dairy Herd Management</td>
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<td>ANSC 401</td>
<td>Beef Production</td>
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<td>ANSC 402</td>
<td>Sheep and Goat Production</td>
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<td>ANSC 403</td>
<td>Pork Production</td>
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<td>ANSC 404</td>
<td>Poultry Science</td>
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<td>ANSC 405</td>
<td>Advanced Dairy Management</td>
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<td>ANSC 407</td>
<td>Animal Shelter Management</td>
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<td>ANSC 424</td>
<td>Pet Food &amp; Feed Manufacturing</td>
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<td>ANSC 435</td>
<td>Milk Quality and Udder Health</td>
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<tr>
<td>ANSC 437</td>
<td>Adv Reproductive Management</td>
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<td>ANSC 471</td>
<td>ANSC Leaders &amp; Entrepreneurs</td>
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Select two of the following Basic Sciences courses: 6

<table>
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<tr>
<td>ANSC 251</td>
<td>Epidemics and Infectious Diseases</td>
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<tr>
<td>ANSC 331</td>
<td>Biology of Reproduction</td>
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<tr>
<td>ANSC 350</td>
<td>Cellular Metabolism in Animals</td>
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<tr>
<td>ANSC 363</td>
<td>Behavior of Domestic Animals</td>
</tr>
<tr>
<td>ANSC 366</td>
<td>Animal Behavior</td>
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*Information listed in this catalog is current as of 11/2022*
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ANSC 406</td>
<td>Zoo Animal Conservation Sci</td>
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<tr>
<td>ANSC 409</td>
<td>Meat Science</td>
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<tr>
<td>ANSC 420</td>
<td>Ruminant Nutrition</td>
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<tr>
<td>ANSC 421</td>
<td>Minerals and Vitamins</td>
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<td>ANSC 422</td>
<td>Companion Animal Nutrition</td>
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<td>ANSC 431</td>
<td>Advanced Reproductive Biology</td>
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<td>ANSC 438</td>
<td>Lactation Biology</td>
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<td>ANSC 440</td>
<td>Applied Statistical Methods I</td>
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<td>ANSC 441</td>
<td>Human Genetics</td>
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<td>ANSC 444</td>
<td>Applied Animal Genetics</td>
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<td>ANSC 445</td>
<td>Statistical Methods</td>
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<td>ANSC 446</td>
<td>Population Genetics</td>
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<td>ANSC 447</td>
<td>Advanced Genetics and Genomics</td>
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<td>ANSC 448</td>
<td>Math Modeling in Life Sciences</td>
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<td>ANSC 449</td>
<td>Biological Modeling</td>
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<td>Comparative Immunobiology</td>
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<td>ANSC 451</td>
<td>Microbes and the Anim Indust</td>
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<td>ANSC 452</td>
<td>Animal Growth and Development</td>
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<td>ANSC 453</td>
<td>Stem Cell Biology</td>
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<td>ANSC 454</td>
<td>Neuroimmunology</td>
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<td>ANSC 460</td>
<td>The Secret Life of Animals: How Technology Can Help You Observe It and Take Action</td>
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<td>ANSC 467</td>
<td>Applied Animal Ecology</td>
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<td>ANSC 509</td>
<td>Muscle Biology</td>
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<td>ANSC 520</td>
<td>Protein and Energy Nutrition</td>
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<td>ANSC 521</td>
<td>Regulation of Metabolism</td>
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<td>ANSC 522</td>
<td>Advanced Ruminant Nutrition</td>
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<td>ANSC 523</td>
<td>Techniques in Animal Nutrition</td>
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<td>ANSC 524</td>
<td>Nonruminant Nutrition Concepts</td>
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<td>ANSC 525</td>
<td>Topics in Nutrition Research</td>
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<td>ANSC 526</td>
<td>Adv Companion Animal Nutrition</td>
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<td>Repro Physiology Lab Methods</td>
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<td>ANSC 542</td>
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<td>Statistical Genomics</td>
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<td>ANSC 554</td>
<td>Immunobiological Methods</td>
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<td>ANSC 561</td>
<td>Animal Stress Physiology</td>
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Additional elective courses must be completed to yield at least 126 total Hours for graduation.  

**Total Hours**  \( 126 \)

*for the degree of Bachelor of Science Major in Animal Sciences, Food Animal Production & Management concentration*

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**department website:** https://ansc.illinois.edu/

**department faculty:** Animal Sciences Faculty (https://ansc.illinois.edu/directory/faculty/)

**overview of college admissions & requirements:** Agricultural, Consumer & Environmental Sciences (http://catalog.illinois.edu/schools/aces/academic-units/#text)

**college website:** https://aces.illinois.edu/