ANIMAL SCIENCES: FOOD ANIMAL PRODUCTION & MANAGEMENT, BS

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

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/

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>
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</thead>
<tbody>
<tr>
<td>RHET 105</td>
<td>Writing and Research (or equivalent) (see college Composition I requirement)</td>
<td>4</td>
</tr>
<tr>
<td>CMN 101</td>
<td>Public Speaking</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Advanced Composition</strong></td>
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<tr>
<td></td>
<td>Select from campus approved list.</td>
<td>3-4</td>
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<tr>
<td></td>
<td><strong>Cultural Studies</strong></td>
<td></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>
<td>9</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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<tr>
<td></td>
<td><strong>Quantitative Reasoning I</strong></td>
<td></td>
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<td></td>
<td>Select one of the following:</td>
<td>4-5</td>
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<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td></td>
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<tr>
<td>MATH 221</td>
<td>Calculus I</td>
<td></td>
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<tr>
<td>MATH 234</td>
<td>Calculus for Business I</td>
<td></td>
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<tr>
<td></td>
<td><strong>Quantitative Reasoning II</strong></td>
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<tr>
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<td>Select one of the following:</td>
<td>3-4</td>
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<tr>
<td>ACE 261</td>
<td>Applied Statistical Methods</td>
<td></td>
</tr>
<tr>
<td>CPSC 241</td>
<td>Intro to Applied Statistics</td>
<td></td>
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<tr>
<td>ECON 202</td>
<td>Economic Statistics I</td>
<td></td>
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<tr>
<td>PSYC 235</td>
<td>Intro to Statistics</td>
<td></td>
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<tr>
<td>STAT 100</td>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>SOC 280</td>
<td>Intro to Social Statistics</td>
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Natural Sciences and Technology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CHEM 103</td>
<td>and General Chemistry Lab I</td>
<td></td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CHEM 105</td>
<td>and General Chemistry Lab II</td>
<td></td>
</tr>
<tr>
<td>MCB 000</td>
<td>Introductory Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>&amp; MCB 101</td>
<td>and Intro Microbiology Laboratory</td>
<td></td>
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</tbody>
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Humanities and the Arts

Courses selected from campus approved list | 6
Social Sciences

ECON 102 | Microeconomic Principles                                              | 3     |
ECON 102 | or ACE 100 | Introduction to Applied Microeconomics                               |       |

Additional social or behavioral science course; cannot be an economics course. | 3-4

ACES Required

ACES 101 | Contemporary Issues in ACES                                           | 2     |

Animal Sciences Required

ANSC 100 | Intro to Animal Sciences                                              | 4     |
ANSC 101 | Contemporary Animal Issues                                           | 3     |
ANSC 103 | Working With Farm Animals                                             | 2     |
ANSC 221 | Cells, Metabolism and Genetics                                        | 3     |
ANSC 222 | Anatomy and Physiology                                                | 3     |
ANSC 223 | Animal Nutrition                                                      | 3     |
ANSC 224 | Animal Reproduction and Growth                                        | 4     |
ANSC 298 | Undergraduate Seminar                                                | 1     |
ANSC 398 | UG Experiential Learning                                              | 1     |
ANSC 498 | Integrating Animal Sciences                                           | 2     |

1 ANSC 398 only fulfills the degree requirement when taken for a standard letter grade.

Information listed in this catalog is current as of 03/2020
Animal Sciences: Food Animal Production & Management, BS

ANSC 401  Beef Production
ANSC 402  Sheep Production
ANSC 403  Pork Production
ANSC 404  Poultry Science
ANSC 405  Advanced Dairy Management
ANSC 407  Animal Shelter Management
ANSC 424  Pet Food & Feed Manufacturing
ANSC 435  Milk Quality and Udder Health
ANSC 437  Adv Reproductive Management
ANSC 471  ANSC Leaders & Entrepreneurs

Select two of the following Basic Sciences courses: 6

ANSC 251  Epidemics and Infectious Diseases
ANSC 331  Biology of Reproduction
ANSC 350  Cellular Metabolism in Animals
ANSC 363  Behavior of Domestic Animals
ANSC 366  Animal Behavior
ANSC 406  Zoo Animal Conservation Sci
ANSC 409  Meat Science
ANSC 420  Ruminant Nutrition
ANSC 421  Minerals and Vitamins
ANSC 422  Companion Animal Nutrition
ANSC 431  Advanced Reproductive Biology
ANSC 438  Lactation Biology
ANSC 440  Applied Statistical Methods I
ANSC 441  Human Genetics
ANSC 444  Applied Animal Genetics
ANSC 445  Statistical Methods
ANSC 446  Population Genetics
ANSC 447  Advanced Genetics and Genomics
ANSC 448  Math Modeling in Life Sciences
ANSC 449  Biological Modeling
ANSC 450  Comparative Immunobiology
ANSC 451  Microbes and the Anim Indust
ANSC 452  Animal Growth and Development
ANSC 453  Stem Cell Biology
ANSC 467  Applied Animal Ecology
ANSC 509  Muscle Biology
ANSC 510  Science of Animal Well-Being
ANSC 520  Protein and Energy Nutrition
ANSC 521  Regulation of Metabolism
ANSC 522  Advanced Ruminant Nutrition
ANSC 523  Techniques in Animal Nutrition
ANSC 524  Nonruminant Nutrition Concepts
ANSC 525  Topics in Nutrition Research
ANSC 526  Adv Companion Animal Nutrition
ANSC 533  Repro Physiology Lab Methods
ANSC 541  Regression Analysis
ANSC 542  Applied Bioinformatics
ANSC 543  Bioinformatics
ANSC 545  Statistical Genomics
ANSC 554  Immunobiological Methods
ANSC 561  Animal Stress Physiology

Additional elective courses must be completed to yield at least 126 total Hours for graduation.

Total Hours 126

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