

# Animal Science (Minor)

The Department of Animal Science offers an undergraduate minor in Animal Science to all interested baccalaureate students. This minor is appropriate for (but not limited to) students majoring in Agricultural Business Management, Agricultural Education, Agricultural Science, Agronomy, Food Science, Nutrition Science, Poultry Science, and Zoology. Students completing a minor in Animal Science will become familiar with animal production and with its related industries.

## Admissions

Students who plan to minor in Animal Science should complete ANS 150 and then apply to add the minor in MyPack's Change of Degree Application (CODA).

## Certification

Certification must be submitted no later than the registration period for the student's final semester at NC State. The minor must be completed no later than the semester in which the student expects to graduate from his or her degree program.

## Contact Person

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**SIS Code: 11ANM**

## Plan Requirements

- Minimum of 15 credit hours is required.
- A grade of 'C-' or higher in each course.
- The program is flexible in order for students to be able to emphasize the discipline or species of their interest.

| Code                    | Title   | Hours    |
|-------------------------|---|----------|
| <b>Required Courses</b> |   | <b>6</b> |
| ANS 150                 | Introduction to Animal Science                        |          |
| ANS 230                 | Animal Nutrition                                      |          |
|                         | or ANS 225 Principles of Animal Nutrition             |          |
| <b>Elective Courses</b> |   | <b>9</b> |
| ANS 105                 | Introduction to Companion Animal Science <sup>1</sup> |          |
|                         | or ANS 110 Introduction to Equine Science             |          |
| ANS 205                 | Physiology of Domestic Animals                        |          |
| ANS/AEE/PB 208          | Agricultural Biotechnology: Issues and Implications   |          |
| ANS/HS 215              | Agricultural Genetics                                 |          |
| ANS 220                 | Reproductive Physiology                               |          |
|                         | or ANS 240 Livestock Merchandising                    |          |
| ANS 261                 | Swine Health and Biosecurity <sup>2</sup>             |          |
| ANS 262                 | Swine Breeding and Gestation Management <sup>2</sup>  |          |
| ANS 263                 | Farrowing Management <sup>2</sup>                     |          |
| ANS 264                 | Swine Nursery and Finishing Management <sup>2</sup>   |          |
| ANS 266                 | Swine Environment Management <sup>2</sup>             |          |
| ANS 267                 | Swine Manure and Nutrient Management <sup>2</sup>     |          |

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|----------------|--|
| ANS 268        | Employee Management for the Swine Industry <sup>2</sup>              |
| ANS 270        | Pork Export Markets from a Swine Production Perspective <sup>2</sup> |
| ANS 281        | Professional Development of PreVeterinary Track Students             |
| ANS 303        | Principles of Equine Evaluation                                      |
| ANS 304        | Dairy Cattle Evaluation  |
| ANS 309        | Livestock Evaluation   |
| ANS/FS/PO 322  | Muscle Foods and Eggs  |
| ANS/FS 324     | Milk and Dairy Products  |
| ANS 330        | Laboratory Animal Science  |
| ANS 400        | Companion Animal Management  |
| ANS 402        | Beef Cattle Management   |
| ANS 403        | Swine Management   |
| ANS 404        | Dairy Cattle Management  |
| ANS 408        | Small Ruminant Management  |
| ANS 410        | Equine Breeding Farm Management                                      |
| ANS 411        | Management of Growing and Performance Horses                         |
| ANS/NTR/PO 415 | Comparative Nutrition  |
| ANS/NTR/PO 425 | Feed Manufacturing Technology  |
| ANS 440        | Animal Genetic Improvement   |
| ANS 452        | Comparative Reproductive Physiology and Biotechnology                |
| ANS 453        | Physiology and Genetics of Growth and Development                    |
| ANS 201        | Techniques of Animal Care  |
| ANS 241        | Introduction to Meat and Poultry Processing                          |
| ANS 242        | Value Added Meat and Poultry Processing                              |
| ANS 243        | Meat Safety and Quality Systems                                      |
| ANS 265        | Contemporary Issues in the Swine Industry                            |
| ANS 290        | Professional Development for Animal Science Careers                  |
| ANS 395        | Animal Science Study Abroad  |
| ANS 435        | Stress Physiology in Animals   |
| ANS 437        | Precision Livestock Farming Systems                                  |
| ANS 439        | Comparative Animal Exercise Physiology                               |
| ANS 407        | Livestock Grazing Management   |
| ANS 271        | Swine Nutrition  |
| ANS 454        | Lactation, Milk and Nutrition  |
| ANS 240        | Livestock Merchandising  |

**Total Hours 15**

<sup>1</sup> Credit is allowed for either ANS 105 Introduction to Companion Animal Science or ANS 110 Introduction to Equine Science, but not both.

<sup>2</sup> Agldea course, offered online with additional tuition.