

# ANIMAL SCIENCE, MINOR

Anne Todgham, Ph.D., Chairperson of the Department

## The Program

The Department of Animal Science offers five minor programs open to students majoring in other disciplines who wish to complement their study programs with a minor in Animal Science. Some courses have required prerequisites not included as part of the minor, and students should plan accordingly.

**Advising** for the minor and course offerings is located in the Animal Science Advising Center (<https://animalscience.ucdavis.edu/academics/undergrad/advising/>) in 1202 Meyer Hall; 530-754-7915.

## Minor Advisor

Russ Hovey, Ph.D., Professor

## Animal Science—Animal Biology

| Code                                                                                                                                                                       | Title                                                                      | Units |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------|
| Choose ANS 015 or ANS 042, or ANS 041 & ANS 041L, or ANS 021 & ANS 041:                                                                                                    |                                                                            | 3-4   |
| ANS 015<br>or ANS 042                                                                                                                                                      | Introductory Horse Husbandry<br>Introductory Companion Animal Biology      |       |
| OR                                                                                                                                                                         |                                                                            |       |
| ANS 041<br>& 041L                                                                                                                                                          | Domestic Animal Production<br>and Domestic Animal Production<br>Laboratory |       |
| OR                                                                                                                                                                         |                                                                            |       |
| ANS 021<br>& ANS 041                                                                                                                                                       | Livestock & Dairy Cattle Judging<br>and Domestic Animal Production         |       |
| Choose one:                                                                                                                                                                |                                                                            | 4     |
| ANS 103                                                                                                                                                                    | Animal Welfare                                                             |       |
| ANS 104                                                                                                                                                                    | Principles & Applications of Domestic<br>Animal Behavior                   |       |
| Choose ANS 123 or ANS 124, or NPB 121 & NPB 121L:                                                                                                                          |                                                                            | 5-8   |
| ANS 123<br>or ANS 124                                                                                                                                                      | Animal Growth & Development<br>Lactation                                   |       |
| OR                                                                                                                                                                         |                                                                            |       |
| NPB 121<br>& 121L                                                                                                                                                          | Physiology of Reproduction<br>and Physiology of Reproduction Laboratory    |       |
| Choose additional units to complete the 20-unit total: <sup>1</sup>                                                                                                        |                                                                            | 8     |
| Upper Division Animal Science (ANS) courses. ( <a href="https://catalog.ucdavis.edu/courses-subject-code/ans/">https://catalog.ucdavis.edu/courses-subject-code/ans/</a> ) |                                                                            |       |
| Animal Genetics (ANG) courses. ( <a href="https://catalog.ucdavis.edu/courses-subject-code/ang/">https://catalog.ucdavis.edu/courses-subject-code/ang/</a> )               |                                                                            |       |
| NPB 121                                                                                                                                                                    | Physiology of Reproduction                                                 |       |
| NPB 121L                                                                                                                                                                   | Physiology of Reproduction Laboratory                                      |       |
| NUT 115                                                                                                                                                                    | Animal Nutrition                                                           |       |
| NUT 122                                                                                                                                                                    | (Discontinued for spring 2023) **                                          |       |
| NUT 123                                                                                                                                                                    | (Discontinued for spring 2023) **                                          |       |
| NUT 123L                                                                                                                                                                   | (Discontinued for spring 2023) **                                          |       |
| Total Units                                                                                                                                                                |                                                                            | 20-24 |

<sup>1</sup>

Variable unit courses (092, 099, 192, 197T, 198, 199) are not allowed for the completion of this requirement.

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Course(s) discontinued; see your advisor for course options.

## Animal Science—Animal Genetics

| Code                                                                                                                                                                       | Title                                                                        | Units |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------|
| Choose ANS 015 or ANS 042, or ANS 041 & ANS 041L, or ANS 021 & ANS 041                                                                                                     |                                                                              | 4-7   |
| ANS 015<br>& ANS 042                                                                                                                                                       | Introductory Horse Husbandry<br>and Introductory Companion Animal<br>Biology |       |
| OR                                                                                                                                                                         |                                                                              |       |
| ANS 041<br>& 041L                                                                                                                                                          | Domestic Animal Production<br>and Domestic Animal Production<br>Laboratory   |       |
| OR                                                                                                                                                                         |                                                                              |       |
| ANS 021<br>& ANS 041                                                                                                                                                       | Livestock & Dairy Cattle Judging<br>and Domestic Animal Production           |       |
| Animal Genetics                                                                                                                                                            |                                                                              | 9     |
| ANG 107                                                                                                                                                                    | Genetics & Animal Breeding                                                   |       |
| ANG 111                                                                                                                                                                    | Molecular Biology Laboratory Techniques                                      |       |
| Additional Upper Division Courses                                                                                                                                          |                                                                              |       |
| Choose additional units to complete the 20-unit total: <sup>1</sup>                                                                                                        |                                                                              | 7-8   |
| Upper Division Animal Science (ANS) courses. ( <a href="https://catalog.ucdavis.edu/courses-subject-code/ans/">https://catalog.ucdavis.edu/courses-subject-code/ans/</a> ) |                                                                              |       |
| Animal Genetics (ANG) courses. ( <a href="https://catalog.ucdavis.edu/courses-subject-code/ang/">https://catalog.ucdavis.edu/courses-subject-code/ang/</a> )               |                                                                              |       |
| AVS 103                                                                                                                                                                    | Avian Development & Genomics                                                 |       |
| NPB 121                                                                                                                                                                    | Physiology of Reproduction                                                   |       |
| NPB 121L                                                                                                                                                                   | Physiology of Reproduction Laboratory                                        |       |
| NUT 115                                                                                                                                                                    | Animal Nutrition                                                             |       |
| NUT 122                                                                                                                                                                    | (Discontinued for spring 2023) **                                            |       |
| NUT 123                                                                                                                                                                    | (Discontinued for spring 2023) **                                            |       |
| NUT 123L                                                                                                                                                                   | (Discontinued for spring 2023) **                                            |       |
| Total Units                                                                                                                                                                |                                                                              | 20-24 |

<sup>1</sup>

Variable unit courses (092, 099, 192, 197T, 198, 199) are not allowed for the completion of this requirement.

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Course(s) discontinued; see your advisor for course options.

## Animal Science—Aquaculture

| Code                                                                                                                                                                       | Title                    | Units |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|
| ANS 018                                                                                                                                                                    | Introductory Aquaculture | 4     |
| ANS 118                                                                                                                                                                    | Fish Production          | 4     |
| ANS 119                                                                                                                                                                    | Invertebrate Aquaculture | 4     |
| Additional upper division courses.                                                                                                                                         |                          | 8     |
| Choose additional units to complete the 20-unit total: <sup>1</sup>                                                                                                        |                          |       |
| Upper Division Animal Science (ANS) courses. ( <a href="https://catalog.ucdavis.edu/courses-subject-code/ans/">https://catalog.ucdavis.edu/courses-subject-code/ans/</a> ) |                          |       |

Animal Genetics (ANG) courses. (<https://catalog.ucdavis.edu/courses-subject-code/ang/>)

|         |                                          |
|---------|------------------------------------------|
| ABT 161 | Water Quality Management for Aquaculture |
| NUT 124 | Nutrition & Feeding of Finfishes         |
| WFC 121 | Physiology of Fishes                     |

**Total Units** **20**

1

Variable unit courses (092, 099, 192, 197T, 198, 199) are not allowed for the completion of this requirement.

## Animal Science—Dairy/Livestock

**Code** **Title** **Units**

Choose ANS 041 & ANS 041L, or ANS 021 & ANS 041: 2-4

|                   |                                                                            |
|-------------------|----------------------------------------------------------------------------|
| ANS 041<br>& 041L | Domestic Animal Production<br>and Domestic Animal Production<br>Laboratory |
|-------------------|----------------------------------------------------------------------------|

**OR**

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| ANS 021<br>& ANS 041 | Livestock & Dairy Cattle Judging<br>and Domestic Animal Production |
|----------------------|--------------------------------------------------------------------|

|         |                                                          |   |
|---------|----------------------------------------------------------|---|
| ANS 104 | Principles & Applications of Domestic<br>Animal Behavior | 4 |
|---------|----------------------------------------------------------|---|

Additional upper division courses. 12

Choose 4 or 8 units: 4-8

|         |                                 |
|---------|---------------------------------|
| ANS 143 | Pig & Poultry Care & Management |
| ANS 144 | Beef Cattle & Sheep Production  |
| ANS 146 | Dairy Cattle Production         |

Choose additional units to complete the 20 unit total: <sup>1</sup>

Upper Division Animal Science (ANS) courses. (<https://catalog.ucdavis.edu/courses-subject-code/ans/>)

Animal Genetics (ANG) courses. (<https://catalog.ucdavis.edu/courses-subject-code/ang/>)

|          |                                       |
|----------|---------------------------------------|
| NPB 121  | Physiology of Reproduction            |
| NPB 121L | Physiology of Reproduction Laboratory |
| NUT 115  | Animal Nutrition                      |
| NUT 122  | (Discontinued for spring 2023) **     |
| NUT 123  | (Discontinued for spring 2023) **     |
| NUT 123L | (Discontinued for spring 2023) **     |

**Total Units** **22-28**

1

Variable unit courses (092, 099, 192, 197T, 198, 199) are not allowed for the completion of this requirement.

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Course(s) discontinued; see your advisor for course options.

## Animal Science—Equine

**Code** **Title** **Units**

|         |                              |   |
|---------|------------------------------|---|
| ANS 015 | Introductory Horse Husbandry | 3 |
|---------|------------------------------|---|

|                       |                                                                            |   |
|-----------------------|----------------------------------------------------------------------------|---|
| ANS 103<br>or ANS 104 | Animal Welfare<br>Principles & Applications of Domestic Animal<br>Behavior | 4 |
|-----------------------|----------------------------------------------------------------------------|---|

|         |                           |   |
|---------|---------------------------|---|
| ANS 115 | Advanced Horse Production | 4 |
|---------|---------------------------|---|

|         |                              |   |
|---------|------------------------------|---|
| ANS 141 | Equine Enterprise Management | 4 |
|---------|------------------------------|---|

|         |                            |   |
|---------|----------------------------|---|
| ANS 125 | Equine Exercise Physiology | 3 |
|---------|----------------------------|---|

or ANS 126 Equine Nutrition

Choose additional units to complete the 20 unit total: <sup>1</sup> 2-3

Upper Division Animal Science (ANS) courses. (<https://catalog.ucdavis.edu/courses-subject-code/ans/>)

Animal Genetics (ANG) courses. (<https://catalog.ucdavis.edu/courses-subject-code/ang/>)

|          |                                       |
|----------|---------------------------------------|
| NPB 121  | Physiology of Reproduction            |
| NPB 121L | Physiology of Reproduction Laboratory |
| NUT 115  | Animal Nutrition                      |
| NUT 122  | (Discontinued for spring 2023) **     |
| NUT 123  | (Discontinued for spring 2023) **     |
| NUT 123L | (Discontinued for spring 2023) **     |

**Total Units** **20-21**

1

Variable unit courses (092, 099, 192, 197T, 198, 199) are not allowed for the completion of this requirement.

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Course(s) discontinued; see your advisor for course options.