

## ANS Laboratory Course Requirement

Only **one** lab course is required to fulfill the requirement.

For more details about each course please refer to the UC Davis General catalog:  
<https://ucdavis.pubs.curricunet.com/Catalog>

| Course                  | Prerequisites   | Units              | Quarter                | Title  |
|-------------------------|---|--------------------|------------------------|--|
| ANG 111                 | BIS 2C, BIS 101,<br>BIS 102/ABI 102,<br>BIS 103/ABI 103   | 4                  | F, W                   | Molecular Biology Laboratory Techniques  |
| ANS 106                 | ANS 104 or NPB 102  | 3                  | W                      | Domestic Animal Behavior Laboratory  |
| ANS 130                 | ANS 100/NPB 101   | 3                  | S                      | Endocrinology Laboratory   |
| ANS 132                 | BIS 2A/B and CHE 8B/118B  | 3                  | F                      | Microbiology of Animal Systems Laboratory  |
| ANS 133                 | ABI 102, ABI 103,<br>ANS 100/NPB 101  | 4                  | NCO                    | Animal Cell Culture Laboratory   |
| ANS 134                 | ABI 103 (conc. ok),<br>ANS 100/NPB 101 (conc. ok), STA<br>100/PLS 120   | 3                  | W                      | Animal Nutrition Laboratory  |
| ANS 135                 | ABI 102, ABI 103, ANS 100/NPB<br>101  | 3                  | F                      | Production Animal Laboratory   |
| ANS 136                 | ANS 2, BIS 2ABC,<br>CHE 8B/118B   | 3                  | F                      | Techniques and Practices of Fish Culture   |
| ANS 137                 | ANS 2, BIS 2ABC,<br>CHE 8B/118B   | 3                  | S                      | Techniques and Practices of Avian Culture  |
| ANS 138                 | CHE 2B, ANS 120 rec.  | 3                  | F<br>(odd years)       | Meat Quality and Safety Laboratory   |
| ANS 139                 | ABI 102, BIS 101  | 3                  | NCO                    | Experiments in Animal Physiology   |
| ANS<br>(160A + 160B) ** | ANS 104 (conc. ok),<br>NPB 102 (conc. ok),<br>NPB 121 (conc. ok)  | 2 + 2<br>(4 total) | W (160A) +<br>S (160B) | Stress and Male Reproduction<br><b>*Students <u>must</u> take both the winter and spring<br/>course to fulfill the lab requirement</b> |
| MCB 120L                | BIS 102/ABI 102, MCB 120 (3 units)<br>(must take conc.)<br><b>(Pass 1 restricted to MCB,<br/>MIC Majors only)</b> | 3                  | All                    | Molecular Biology and Biochemistry<br>Laboratory   |
| MCB 160L                | BIS 101 <b>(Pass 1 restricted to<br/>Genetics Majors only)</b>  | 5                  | All                    | Principles of Genetics Laboratory  |
| MIC 102 + MIC<br>103L   | BIS 1A/BIS 2A, CHE 2B (conc. ok)  | 3 + 2<br>(5 total) | All                    | Introductory Microbiology<br><b>*Students <u>must</u> take both courses to fulfill the Lab<br/>Requirement</b>                         |
| NPB 101L                | ANS 100 or NPB 101 or NPB 110C<br><b>(Pass 1 restricted to NPB, BIS,<br/>CNU, NSC, HUB Majors only)</b>           | 3                  | All                    | Systemic Physiology Laboratory   |
| PMI 126L                | PMI 126 (3 units) (conc. ok)  | 2                  | NCO                    | Immunology Laboratory  |

\*\*ANS 160A and 160B uses a deferred grading method; grades for both classes will be available after completion of 160B

## Integrative Animal Biology Courses and Prerequisites

**Integrative Animal Biology Courses – must take 2 courses from the list below**

| Course  | Prerequisites  | Units | Quarter | Title   |
|---------|--|-------|---------|---|
| NPB 130 | ANS 100 or NPB 101 or NPB 110C                                 | 4     | F       | Physiology of the Endocrine Glands                          |
| ANS 124 | ABI 103 (conc. ok) or BIS 103 (conc. ok)<br>ANS 100 or NPB 101 | 4     | W       | Lactation   |
| NPB 121 | ANS 100 or NPB 101 or NPB 110C                                 | 4     | W       | Physiology of Reproduction<br><b>**NPB 121L is OPTIONAL</b> |
| ANS 123 | ABI 103 or BIS103,<br>ANS 100 or NPB 101                       | 4     | S       | Animal Growth and Development                               |

**Aquatics Integrative Animal Biology Courses – must take 2 courses from the list below**

Only use select courses from this list if you are specializing in Aquatics

| Course  | Prerequisites   | Units | Quarter           | Title                              |
|---------|---|-------|-------------------|------------------------------------|
| WFC 120 | BIS 2BC   | 3     | F                 | Biology and Conservation of Fishes |
| NPB 123 | BIS 1AB or BIS 2AB  | 4     | F                 | Comparative Vertebrate Organology  |
| EVE 112 | BIS 1B or BIS 2B, BIS 2C<br>(courses in systematics, and EVE courses rec) | 3     | W<br>(even years) | Biology of Invertebrates           |
| ANS 123 | ABI 103 or BIS 103 and<br>ANS 100 or NPB 101                              | 4     | S                 | Animal Growth and Development      |

**Avian and Poultry Integrative Animal Biology Courses – must take 2 courses from the list below**

Only use select courses from this list if you are specializing in Avian or Poultry

| Course  | Prerequisites                               | Units | Quarter | Title                              |
|---------|---|-------|---------|------------------------------------|
| NPB 130 | ANS 100 or NPB 101 or NPB 110C              | 4     | F       | Physiology of the Endocrine Glands |
| AVS 103 | BIS 2AB                                     | 3     | NCO     | Avian Development and Genomics     |
| AVS 100 | BIS 2AB, ANS 2 rec.                         | 3     | S       | Avian Biology                      |
| ANS 123 | ABI 103 or BIS103 and<br>ANS 100 or NPB 101 | 4     | S       | Animal Growth and Development      |

### Prerequisite Sequences

| Course: | Required Preparation:                           |
|---------|---|
| ABI 102 | CHE2AB, CHE8AB, or 118AB                        |
| ABI 103 | ABI 102 or BIS 102                              |
| ANG 107 | BIS 101   |
| ANS 100 | BIS 2A, CHE 2B                                  |
| BIS 101 | BIS 2AB (C- or better) , CHE8A or 118A, STA 100 |
| NPB 101 | BIS 2A, CHE 2B, Physics recommended             |
| STA 100 | MAT 16AB  |

F, W, S, Su: Fall, Winter, Spring, Summer

Conc. Ok : Concurrent Enrollment ok

Rec.: Recommended

NCO: Not Currently Offered

Updated 04/14/2022