

2023-2024 CHECKLIST OF REQUIREMENTS FOR THE B.S. DEGREE IN ANIMAL SCIENCE AND MANAGEMENT

1. **GENERAL UNIVERSITY REQUIREMENTS:** Entry Level Writing Requirement; American History & Institutions

GENERAL EDUCATION:

*See additional GE handout for how the Animal Science Major meets some GE requirements.

2. **ENGLISH** - Choose **ONE** of following options:

- a) Two courses from:
 - i. ENL 3, UWP 1, 48, 49, 101, UWP 102A-G, 104A-F; **OR**
 - ii. One from the previous list **AND** one from: COM 1, 2, 3, 4, NAS 5, CMN 1
- b) Advanced Placement English score of 4 or 5 plus any course on above list **EXCEPT** UWP 1 or ENL 3
- c) **AFTER** completing 70 units pass English Comp Exam

Please check in with the College of Agricultural and Environmental Sciences Dean's Office (150 Mrak Hall) often to review your General University and College English requirements.

3. **ADDITIONAL 8 UNITS OF UWP/CMN COURSES** (cannot overlap with College English requirements above) (choose **TWO** courses):

Communications:

CMN 120 (4) (F)
CMN 122 (4) (W,S)
CMN 130 (4)
CMN 136 (4) (F,W)
CMN 140 (4)

NOTE: CMN courses are pass 1 restricted to CMN majors.

University Writing Program:

UWP 101 (4)
UWP 102A-G (4)
UWP 104A-F (4)

4. **PREPARATORY SUBJECT MATTER (minimum 53-57 units):**

Animal Science (8 units):

ANS 1 (4) (F)
ANS 2 (4) (S)

Biology (15 units):

BIS 2A (5)
BIS 2B (5)
BIS 2C (5)

General Chemistry (10 units):

CHE 2A (5) (F, W, SuI)
CHE 2B (5) (W, S, SuII)

Organic Chemistry (choose ONE sequence) (6-8 units):

CHE 8A (2) (F, S, SuI) **OR** CHE 118A (4) (F, W, SuI)
CHE 8B (4) (F, W, SuI, SuII) CHE 118B (4) (W, S, SuII)

Mathematics (choose ONE sequence) (6-8 units):

MAT 16A (3), MAT 16B (3), MAT 16C (3) **OR** MAT 19A (4), MAT 19B (4), MAT 19C (4) **OR**
MAT 17A (4), MAT 17B (4), MAT 17C (4) **OR** MAT 21A (4), MAT 21B (4), MAT 21C (4)

NOTE: MAT 16A, MAT 16B, and MAT 16C will no longer be offered starting Fall 2024.

Statistics (choose ONE course) (4 units):

PLS 120 (4) (F) **OR** STA 100 (4) **OR** STA 103 (4) (STA 13 is a prerequisite)

NOTE: Students who took or received credit for STA 13 will only receive 2 units of academic credit for completing STA 100.

Computer Science (choose ONE course) (3-4 units):

PLS 21 (3) **OR** ECS 15 (4) (NCO)

Economics (8 units):

ECN 1A (4)
ECN 1B (4)

Accounting (8 units):

MGT 11A (4) (F,W)
MGT 11B (4) (S)

5. **DEPTH SUBJECT MATTER (minimum 58-62 units):**

Genetics (4 units):

BIS 101 (4) (*BIS 101D – Optional*)

Nutrition (4 units):

NUT 115 (140) (4) (W,S)

Physiology (choose ONE course) (5 units):

ANS 100 (5) (S) **OR** NPB 101 (5)

5. **DEPTH SUBJECT MATTER [Continued] (minimum 58-62 units):**

Business Management (15-16 units) (complete BOTH courses below and ONE from each of the lists):

ARE 100A (4) (F,W,S,SuI)

ANS 128 (4) (W)

Choose ONE course from the following list:

ARE 112 (4) (F,W,S,SuII)

ARE 113 (4) (W)

ARE 132 (3) (W)

ARE 139 (4) (S,SuI)

NOTE for ARE 139: PLS 120/STA 100 are approved as prerequisites – may need to complete the prerequisite petition.

Choose ONE course from the following list:

ARE 120 (4) (S)

ARE 140 (4) (W)

ARE 145 (4) (W,SuII)

ARE 157 (4) (S)

NOTE for ARE 157: ANS 128 and PLS 120/STA 100 are approved as prerequisites – may need to complete the prerequisite petition

Specialization (14-18 units):

Choose **ONE** area of specialization below.

If a required course is offered alternating years and you cannot take it before graduation, contact the Animal Science Advising Center.

**NOTE: ANS 148 is considered a capstone course for the major, and should be taken the Spring Quarter prior to graduation.*

Aquatic Animals (14-16 units) (choose ONE of the following options):

- a. **Bodega Bay Coursework** (Spring = 12 units **OR** Summer = 10 units [strongly recommended]) **AND** ANS 148 (4) (S)

NOTE: For more information on Bodega Bay Marine Laboratories, please visit [their website](#).

- b. **Complete the following series:**

ANS 18 (4) (F)

EVE 115 (4) (W)

ANS 112 (3) (S) **OR** ANS 136 (3) (F)

ANS 148 (4) (S)*

Equine (15 units):

ANS 15 (3) (W)

ANS 115 (4) (F)

ANS 141 (4) (S)

ANS 148 (4) (S)*

Livestock (17 units):

ANS 41 (2) (F)

ANS 41L (2) (F,W)

ANS 120 (3) (W)

ANS 120L (2) (W)

ANS 143 (4) (F EOY ODD) **OR** ANS 144 (4) (S)

ANS 148 (4) (S)*

Poultry (16 units):

AVS 13 (3) (F) – restricted to students in lower division standing.

ANS 120 (3) (W)

ANS 120L (2) (W)

ANS 143 (4) (F EOY ODD)

ANS 148 (4) (S)*

Companion Animals (16 units):

ANS 42 (4) (W)

ANS 140 (4) (F)

ANS 142 (4) (F,W)

ANS 148 (4) (S)*

Dairy (18 units):

ANS 41 (2) (F)

ANS 41L (2) (F,W)

ANS 120 (3) (W)

ANS 120L (2) (W)

ANS 146 (5) (S)

ANS 148 (4) (S)*

Individualized (14-16 units):

Students may, with **PRIOR** approval of one of the Staff Advisors **and** the Lead Faculty Advisor, design their own individualized specialization within the major. The specialization will consist of 4-6 courses, including ANS 148. The other courses will include an introduction, care and management, and processing and/or marketing aspects of the animal of interest.

Course	Units	Grade	Quarter
ANS 148*	4		Spring

RESTRICTED ELECTIVES (at least 2 additional courses (minimum 8 units) selected with the approval of advisor (recommended courses listed below, if not selected on previous pages for satisfying other requirements):

Agricultural & Resource**Economics:**

ARE 18 (4) (F,W,S,SuI)
 ARE 112 (4) (F,W,S,SuII)
 ARE 120 (4) (S)
 ARE 130 (4) (F)
 ARE 136 (4) (F,W,S,SuII)
 ARE 138 (4) (W)
 ARE 142 (3) (F,S)
 ARE 143 (3) (F,W,SuI)
 ARE 144 (3) (W,S,SuII)
 ARE 145 (4) (W,SuII)
 ARE 150 (4) (S)
 ARE 155 (4) (F,W,S,SuI)
 ARE 157 (4) (W)
 ARE 171 (4) (F,W,S,SuI)
 ARE 172 (4) (W,S,SuII)
 ARE 176 (4) (W)

Animal Biology:

ABI 102 (5) (F,W)
 ABI 103 (5) (W,S)

Animal Genetics:

ANG 105 (3) (W)
 ANG 107 (5) (F,S)
 ANG 111 (4) (F,W)

Animal Science:

ANS 103 (4) (W)
 ANS 104 (4) (F,S)

ANS 106 (3) (W)
 ANS 107 (3) (SuII)
 ANS 115 (4) (F)
 ANS 120 (3) (W)
 ANS 120L (2) (W)
 ANS 123 (4) (S)
 ANS 124 (4) (W)
 ANS 125 (3) (W EOY ODD)
 ANS 126 (3) (W EOY EVEN)
 ANS 127 (3) (S)
 ANS 128 (4) (W)
 ANS 129 (3) (W EOY ODD)
 ANS 133 (4) (NCO)
 ANS 134 (4) (F,W)
 ANS 135 (3) (F)
 ANS 136 (3) (F)
 ANS 137 (3) (S)
 ANS 139 (3) (W)
 ANS 140 (4) (F)
 ANS 141 (4) (S)
 ANS 142 (4) (F,W)
 ANS 143 (4) (F EOY ODD)
 ANS 144 (4) (S)
 ANS 145 (4) (NCO)
 ANS 146 (5) (S)
 ANS 150 (4) (W,S)
 ANS 170 (4) (F,S)
 ANS 192 (VARIABLE)**
 ANS 194 (3) (F,W,S)**
 ANS 194H (4) (F,W,S)**

Avian Sciences:

AVS 100 (3) (S)
 AVS 103 (3) (NCO)
 AVS 115 (3) (SuII)

Computer Science:

ECS 124 (4) (S)

Management:

MGT 103 (4) (F)

Neurobiology, Physiology & Behavior:

NPB 102 (3) (F,W,S,SuI)
 NPB 121 (4) (W)
 NPB 121L (1) (W)
 NPB 130 (4) (F)

Nutrition:

NUT 115 (140) (4) (W,S)
 NUT 141 (4) (F,S)
 NUT 142 (4) (S)

Wildlife, Fish & Conservation**Biology:**

WFC 120 (3) (F)
 WFC 120L (1) (F)
 WFC 130 (4) (W)

***Can only be used once for credit in this category. Additionally, only 4 UNITS of ANS 192 may be used towards Restricted Elective.*

6. **UNRESTRICTED ELECTIVES** (to bring the total units to at least 180 (10-40 units).

Students must have 180 units by the end of graduation.

ANM General Education Requirements

	Fulfilled By Major	Remaining Requirements
Topical Breadth (Requires 52 Units)	Science & Engineering (SE): CHE 2A 5 CHE 2B 5 BIS 2A 5 BIS 2B 5 12-20 units max. 20 Social Sciences (SS): ECN 1A 4 ECN 1B 4 MGT 11A 4 MGT 11B 4 ARE 100A 4 12-20 units max. 20	Arts & Humanities (AH): (UWP Upper Div.) _____ _____ _____ _____ _____ _____ 12-20 units _____ Total AH: 12 units <input type="checkbox"/> Satisfied
Core Literacies (Requires 27 Units Total)	Literacy with Words & Images: Writing Experience (WE): ANS 2 4 NUT 115 4 6 units complete Oral Skills or Additional Writing Experience (OL): BIS 2C 5 3 units complete Visual Literacy (VL): BIS 2B 5 3 units complete Quantitative Literacy (QL): MAT 16A 3 3 units complete Scientific Literacy (SL): MAT 16B 3 3 units complete Civic & Cultural Literacy: American Cultures, Governance & History (ACGH): ECN 1A 4 3 units complete Total: 21	Civic & Cultural Literacy Continued (2 courses required): Domestic Diversity (DD): _____ 3 units _____ <input type="checkbox"/> Satisfied World Cultures (WC): _____ 3 units _____ <input type="checkbox"/> Satisfied Total: 6 units <input type="checkbox"/> Satisfied

Important Notice: AP Credit CANNOT be used as GE credit

For more information, visit <https://catalog.ucdavis.edu/undergraduate-education/university-degree-requirements/general-education-requirements/>

KEY FOR LETTERS AND SYMBOLS USED IN THE ANM MAJOR CHECKLIST:

- QUARTER OFFERED: F = FALL, W = WINTER, S = SPRING, Su I or Su II = SUMMER SESSIONS I OR II, NCO = NOT CURRENTLY OFFERED, EOY = EVERY OTHER YEAR
- UNIT VALUES ARE INDICATED WITHIN PARENTHESES