

## 2023-2024 CHECKLIST OF REQUIREMENTS FOR THE B.S. DEGREE IN AGRICULTURAL AND ENVIRONMENTAL SCIENCES

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. **GOVERNMENT/US CONSTITUTION PREPARATORY SUBJECT MATTER (4 units):**

HIS 17A (4) **OR** POL 1 (4)

*NOTE: HIS 17A is strongly recommended, since it counts under the AH and DD GEs. Please keep in mind that there are no GE requirements satisfied if you received AP units.*

4. **GENERAL PREPARATORY SUBJECT MATTER (50 units):**

**Animal Science (8 units):**

ANS 1 (4) (F)  
 ?ANS 2 (4) (S)  
 ?ANS 21 (2) (S)  
 ?ANS 41 (2) (F)  
 ANS 49 (2)

**Applied Biological Systems and Technology (9 units):**

?ABT 16 (2) (F)  
 ?ABT 52 (2) (W)  
 ?ABT 49 (2) (F,S)  
 ?ABT 101 (3) (W)

**Economics (8 units):**

ARE 15 (4) (S)  
 ECN 1A (4)  
 ?ECN 1B (4)

**Environmental Horticulture (9 units):**

?ENH 1 (3) (F)  
 ENH 6 (4) (F)  
 ?PLS 6 **OR** ?PLS 6V (2)

**Environmental Science/Natural Resources (8 units):**

?ESP 10 (3) (S)  
 ETX 10 (3) (F)  
 HYD 10/SAS 10 (3) (S)  
 SAS 14 (3) (S)  
 GEL 17 (2)

**Plant Sciences (8 units):**

PLS 1 (3) (F)  
 ?PLS 2 (4) (W)  
 PLS 15 (4) (S)  
 ?PLS 49 (3) (F,S)  
 VEN 2 (2) (F)  
 VEN 3 (3)

5. **MATH & SCIENCE PREPARATORY SUBJECT MATTER (43-46 units):**

**Biology (choose ONE sequence) (10 units):**

BIS 2A (5) **OR** ?BIS 2B (5)  
 ?BIS 2B (5) BIS 2C (5)

**General Chemistry (10 units):**

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

**General Category (9 units):**

GEL 1 (4)  
 GEL 20 (2) (W) – can be replaced with SAS 11 or GEL 25 if not being offered.  
 ?SSC 10 (3) (F)

**5. MATH & SCIENCE PREPARATORY SUBJECT MATTER [Continued] (43-46 units):**

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

MAT 16A (3), MAT 16B (3) **OR**

MAT 17A (4), MAT 17B (4) **OR**

MAT 19A (4), MAT 19B (4) **OR**

MAT 21A (4), MAT 21B (4)

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

**Physics (choose ONE sequence) (8-9 units):**

PHY 7A (4), PHY 7B (4)

**OR** PHY 1A (3) (F,W,SuI), PHY 1B (3) (W,S), PHY 10C (3) (F)

**6. DEPTH SUBJECT MATTER (20 units):**

**Agricultural and Environmental Education (6 units):**

?AED 100 (3) (W) – can be taken during your second year.

AED 160 (3) (F)

**Education (10 units):**

EDU 110 (4)

EDU 115 (2)

EDU 142 (4) (S)

**Capstone (4 units):**

AED 178 (198) (4) (S) – to be taken in Spring Quarter of your final year.

**7. FOCUSED DEPTH SUBJECT MATTER (16 units):** Students may choose from **Agricultural Business and Economics; Animal Science; Applied Biological Systems Technology; Environmental Horticulture; Environmental Science and Natural Resources; or Plant and Soil Science** as a Focused Depth subject matter category. Students must complete a minimum of 16 upper division units related to a Focused Depth subject category. **All planned courses must be approved by an Advisor.** Please use space provided at the end of this section to indicate your Focused Depth Subject Matter category and list courses selected.

<u>Course</u>	<u>Units</u>	<u>Grade</u>	<u>Quarter</u>

**8. RESTRICTED ELECTIVES (16 units):** At least 16 units of additional upper-division courses selected with approval of an advisor to supplement or expand depth subject matter courses chosen from ABI, ABT, ANG, ANS, ARE, ATM, AVS, BIS, BIT, ENH, ENT, ERS, ESM, ESP, ETX, EVE, FST, HYD, IAD, NAC, NPB, NUT, PLB, PLP, PLS, SSC, VEN, or WFC. **Restricted Elective coursework may not be duplicated from Focused Depth Subject Matter coursework.**

<u>Course</u>	<u>Units</u>	<u>Grade</u>	<u>Quarter</u>

**9. UNRESTRICTED ELECTIVES (9-31 units):** Courses selected to bring total units to a minimum of 180.

*NOTE: A minimum of 54 upper-division units are required for graduation.*

**Students must have 180 units by the quarter of graduation.**

**ADDITIONAL COURSES REQUIRED FOR STUDENTS INTERESTED IN CALIFORNIA SUBJECT EXAMINATION FOR TEACHERS (CSET) EXAM WAIVER, IN PREPARATION FOR THE AGRICULTURAL CREDENTIAL PROGRAM:**

*NOTE: These courses can count towards Focused Depth Subject Matter or Restricted Electives if upper division.*

**Applied Biological Systems and Technology:**

ABT 165 (2) (W)

**Plant and Soil Science; Ornamental Horticulture:**

BIS 2C (5)

ENH 125 (5) (W)

**Environmental Science and Nature**

PLS 147 (3) (S)

SAS 18 (3) (S)

**Agricultural Business and Economics:**

ARE 18 (4) (F,W,S,SuI)

CMN 136 (4) (F,W,SuI)

MGT 11A (4) (F,W,SuI)

PLS 21 (3) (F,W,S)

ANS 145 (4) (W)

**Marketing (choose ONE course):**

ARE 130 (4) (F)

ANS 141 (4) (S)

ANS 143 (4) (F EOY ODD)

## AEE General Education Requirements

	<b>Fulfilled By Major</b>	<b>Remaining Requirements</b>
<b>Topical Breadth (Requires 52 Units Total)</b>	<p><b>Science &amp; Engineering (SE):</b></p> <p>CHE 2A _____ 5            CHE 2B _____ 5            BIS 2A or 2C _____ 5            BIS 2B _____ 5</p> <p><b>12-20 units                    <u>max. 20</u></b></p> <p><b>Social Sciences (SS):</b></p> <p>ARE 15 _____ 4            ECN 1A or 1B _____ 4            EDU 110 _____ 4            EDU 142 _____ 4            ESP 10 _____ 3            EDU 115 _____ 2</p> <p><b>12-20 units                    <u>max. 20</u></b></p>	<p><b>Arts &amp; Humanities (AH):</b></p> <p>HIS 17A _____ 4            _____            _____            _____            _____            _____</p> <p><b>12-20 units</b> _____</p> <p><b>Total AH:</b>                    <u>12 units</u>   <input type="checkbox"/> <b>Satisfied</b></p>
<b>Core Literacies (Requires 27 Units Total)</b>	<p><b><u>Literacy with Words &amp; Images:</u></b>  <b>Writing Experience (WE):</b></p> <p>GEL 1 _____ 4            EDU 110 _____ 4  <b>6 units                        <u>complete</u></b></p> <p><b>Oral Skills or Additional Writing Experience (OL):</b></p> <p>ANS 1 _____ 4  <b>3 units                        <u>complete</u></b></p> <p><b>Visual Literacy (VL):</b></p> <p>BIS 2B _____ 5  <b>3 units                        <u>complete</u></b></p> <p><b>Quantitative Literacy (QL):</b></p> <p>MAT 16A _____ 3  <b>3 units                        <u>complete</u></b></p> <p><b>Scientific Literacy (SL):</b></p> <p>MAT 16B _____ 3  <b>3 units                        <u>complete</u></b></p> <p><b>Civic &amp; Cultural Literacy:</b>  <b>American Cultures, Governance &amp; History (ACGH):</b></p> <p>ECN 1A or 1B _____ 4  <b>3 units                        <u>complete</u></b></p> <p><b>Total:</b>                        <u>27</u></p>	<p><b>Civic &amp; Cultural Literacy Continued (1 course required):</b></p> <p><b>World Cultures (WC):</b></p> <p>_____ _____  <b>3 units</b> _____</p> <p><b>Domestic Diversity (DD):</b></p> <p>HIS 17A _____ 4  <b>3 units                        <u>complete</u></b></p> <p><b>Total:</b>                        <u>7 units</u>   <input type="checkbox"/> <b>Satisfied</b></p>

**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 AEE 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
- ? INDICATES REQUIRED COURSES FOR STUDENTS INTERESTED IN HAVING CSET EXAM WAIVED PRIOR TO APPLYING FOR THE AGRICULTURAL CREDENTIAL PROGRAM.