2014-2015 CHECKLIST OF REQUIREMENTS
FOR THE B.S. DEGREE IN ANIMAL SCIENCE

Choose a Specialization from the following:
Animal Science with a Disciplinary Focus
  Aquatic Animals
  Avian Sciences
  Companion and Captive Animals
  Equine Science
  Laboratory Animals
  Livestock and Dairy
  Poultry

Name___________________________________
ID_______________________________________
Pre-Vet? Yes ____ No ____
QUARTER UNITS COMPLETED___________
CHECKLIST COMPLETED BY_______________________
DATE________________GPA_____________

___ 1. GENERAL UNIVERSITY REQUIREMENTS: Entry Level Writing Requirement ____; Amer. History & Inst ____

GENERAL EDUCATION:

*See additional GE handout

___ 2. ENGLISH - Choose ONE of following options:

_____ 1) Two courses from:
  ENL 3, UWP 1, 18, 19, 101, UWP 102A-G, 104A-F, NEM 150; OR

  One from the previous list AND one from:
  COM 1, 2, 3, 4, NAS 5, CMN 1

_____ 2) Advanced Placement English score of 4 or 5 plus any course on above list

  EXCEPT UWP 1 or ENL 3

_____ 3) AFTER completing 70 units pass English Comp Exam

___ 3. PREPARATORY SUBJECT MATTER (minimum 56 units)

____ a) ANS 1 (4) I ___, ANS 2 (4) III ___ (ANS 1 is waived for incoming transfer students; ANS 2 may be waived with appropriate coursework or animal experience).

____ b) ANS 41 (2) I ___, ANS 41L (2) I, II ___ [Take Sophomore year to avoid future class conflicts] (ANS 41 and 41L are waived for incoming transfer students).

____ c) CHE 2A (5) I, II ___, 2B (5) II, III ___

____ d) CHE [8A (2) I, III ___, 8B (4) I, II ___] OR [118A (4) ___, 118B (4) ___]

____ e) BIS 2A (5) ___, 2B (5) ___, 2C (5) ___

____ f) MAT [16A (3) ___, 16B (3) ___] OR [17A (4) ___, 17B (4) ___] OR [21A (4) ___, 21B (4) ___]

____ g) PLS 120 (4) I ___ OR STA 100 (4) ___ (Students who have already taken or received credit for STA 13 will only receive 2 units of academic credit for completing STA 100)
4. DEPTH SUBJECT MATTER (minimum 38-42 units)

   a) BIOLOGY
   BIS 101 (4) (BIS 101D – Optional), ABI 102 (5) I, ABI 103 (5) II, ANG 107 (5) I, NPB 101 (5) OR ANS 198 [100] (5) III

   b) INTEGRATIVE ANIMAL BIOLOGY
   ANS 123 (4) III, ANS 124 (4) II, NPB 121 (4) II

   c) LABORATORY COURSE - select ONE from the following:
   • ANG 111 (4) I, IV
   • ANS 106 (2) III
   • ANS 198 [135] (3) I
   • ANS 136 (3) I
   • ANS 137 (3) III
   • ANG 111 (4) I, IV
   • ANS 139 (3) III
   • MCB 120L (6)
   • MCB 160L (4)
   • NPB 101L (3)
   • PMI 126L (2) II

   d) SPECIALIZATION (minimum 20-23 units): SEE BELOW
   Choose one area from the next three pages. Your program of study must be approved in advance by your faculty adviser.

   Students may elect to include up to 3 units of ANS 194 as part of their specialization, with approval of their faculty adviser. ANS 192 and ANS 199 CANNOT be used for the specialization.

5. UNRESTRICTED ELECTIVES (23-42 units) Courses selected to bring total units to 180.

SPECIALIZATIONS

Animal Science with a Disciplinary Focus (minimum 20 units)
Select 20 upper division letter graded units, with approval from your faculty adviser, to form a coherent series of courses centered on one of the following disciplines: Animal Behavior, Biochemistry, Genetics, Nutrition, or Physiology.

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<tr>
<th>Course</th>
<th>Units</th>
<th>Quarter</th>
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Aquatic Animals (minimum 20 units)

Students in this specialization must take ANS 136A and 137 to meet their Laboratory requirement.

a. Recommended courses:
   - ANS 18 (4) I ____, ANS 118 (4)*____, ANS 131 (4)*____
   - EVE 115 (4) II ____ , NPB 123 (4) II ____ , WFC 102 (1) III ___

b. Select additional upper division units (to bring total to 20) from any Animal Genetics or Animal Science courses, or other courses approved by your faculty adviser. Upper division letter graded courses taken at Bodega Bay (III, IV) could be applied to the specialization. Other course suggestions are: ESP 110 (4) III, NPB 102 (3) II, III, NPB 124 (4) II EOY Odd, NPB 128 (3) IV, NPB 130 (4) I, WFC 100 (4) III, WFC 102L (6) III, and WFC 155 (3) II.

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*c. Students in this specialization may elect to substitute BIS 104 (3), EVE 112 (4) II, or WFC 120 (3) I and WFC 121 (4) II for part or all of the 12 unit requirement under the Integrative Animal Biology section (Depth Subject Matter) with approval of your faculty adviser.

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*Not Currently Offered

Avian Sciences (minimum 20 units)

Students in this specialization must substitute AVS 103 (3) I*, AVS 100 (3) III, and NPB 117 (3) III for the ANS 124, NPB 121 and 121L requirement under the Integrative Animal Biology section (Depth Subject Matter).

a. Recommended courses:
   - AVS 13 (3) I ____ , AVS 150 (1) III (EOY Even) ____ , NUT 123 (3) III ____ ,
     NUT 123L (1) III ____ , WFC 111 (3) I ____ ,

b. Select additional upper division units (to bring total to 20) from any Animal Genetics, Animal Science, or Avian Sciences courses or other courses approved by your faculty adviser.

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*If Not Currently Offered; take instead ANS 49H (2) and AVS 199 (1) with AVS Master Adviser

Companion and Captive Animals (minimum 20 units)

a. Recommended courses:
   - ANS 42 (4) II ____ , ANS 142 (4) I ____ , ANS 170 (4) III ____
   - NUT 115 (4) II ____ , OR NUT 122 (4) III ____ OR
     NUT 123 (3) III ____ and NUT 123L (1) III ____
   - AVS 100 (3) III ____ , AVS 103 (3) I ____

b. Select additional upper division units (to bring total to 20) from any Animal Genetics, Animal Science, or Avian Sciences courses, or from NUT 115 (4) II, NUT 122 (4) III, or other courses approved by your faculty adviser.

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**Equine Science** *(minimum 20 units)*

a. **Recommended courses:**
   - ANS 15 (3) II ____, ANS 115 (4) I ____, ANS 141 (4) II (EOY, Odd), IV ____,
     ANG 105 (2) III _____
   - ANS 125 (3) III (EOY Odd) ____ OR ANS 126 (3) III (EOY Even) ____ OR
     ANS 127 (3) III _____

b. **Select additional upper division units** (to bring total to 20) from any Animal Genetics or Animal Science courses, or from NUT 115 (4) II, NUT 122 (4) III, or other courses approved by your faculty adviser.

   NOTE: ANS 149 (3) IV is an acceptable course for Equine Science specialization units in the Animal Science major when offered. The decision to teach ANS 149 is made on an annual basis and students should plan to take an alternate course if ANS 149 is not taught.

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<tr>
<td>Laboratory Animals</td>
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**Laboratory Animals** *(minimum 23 units)*

a. **Recommended courses:**
   - ANS 42 (4) II _____
   - ANS 104 (4) II ____ OR NPB 102 (3) II, III _____
   - ANS 103 (4) I ____, ANS 140 (4) I ____
   - NUT 123 (3) III ____ , NUT 123L (1) III ____ , APC 100/NPB 123 (4) II ____

b. **If not chosen from above,** select additional upper division units *(to bring total to 23)* from any Animal Genetics, Animal Science, or Avian Sciences courses, or from NUT 115 (4) II, NUT 122 (4) III, or other courses approved by your faculty adviser.

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<tr>
<td>Livestock and Dairy</td>
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**Livestock and Dairy** *(minimum 20 units)*

a. **Recommended courses:**
   - Two courses from: ANS 143 (4) I (EOY Odd) ____ , ANS 144 (4) III ____ ,
     ANS 146 (5) III _____
   - ANS 145 (4) II (EOY Even) ____
   - NUT 115 (4) II ____

b. **Select additional upper division units** *(to bring total to 20)* from any Animal Genetics course, ANS 129 (3) (EOY odd) II, or another Animal Science course, or from NUT 122 (4) III, NUT 123 (3) III, NUT 123L (1) III, or other courses approved by your faculty adviser.

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**EOY = Every Other Year**

Revised: 5/19/15
**Poultry (minimum 20 units)**

Students in this specialization **must** substitute AVS 103* (3) I, AVS 100 (3) III, and NPB 117 (3) III for the ANS 124, NPB 121 and 121L requirement under the Integrative Animal Biology section of Depth Subject Matter.

a. **Recommended courses:**
   - AVS 13 (3) I _____, AVS 100 (3) III _____, AVS 103 (3) I _____,
   - AVS 150 (1) III (EOY Even) _____
   - ANS 143 (4) I (EOY Odd) _____, NUT 123 (3) III _____, NUT 123L (1) III _____

b. Select additional upper division units (to bring total to 20) from any Animal Genetics, Animal Science or Avian Sciences course, or from NUT 123 (3) III, NUT 123L (1) III, or other courses approved by your faculty adviser.

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* If Not Currently Offered; take instead ANS 49H (2) and AVS 199 with AVS Master Adviser

**ADDITIONAL COURSES REQUIRED FOR UC DAVIS VETERINARY SCHOOL PREPARATION (SUBJECT TO LAST MINUTE CHANGES):**

- CHE 2C (5) I, III __
- If CHE 118A-B taken, CHE 118C (4) I, III ___
- PHY 1A (3) I ___, PHY 1B (3) II ____ OR PHY 7A ___; 7B ____;
  - For students interested in other veterinary schools, PHY 7C ___ is recommended.
- Completion of a Bachelor’s Degree now covers English requirement for UC Davis Veterinary School.
  - For students interested in other veterinary schools, 12 units of English may be required.

*If you are planning to apply to other Veterinary schools, you may be required to take more/higher level courses in English and other requirements. It is important to regularly check the admissions criteria to make sure that you fulfill the requirements. Refer to the UCD Veterinary Medicine handbook or consult with a Pre-Veterinary School adviser (Health Sciences Advising, 530-752-4475, 111 South Hall) for details about acceptable courses.
## ANS Courses That Fulfill General Education Requirements

### (GE 3: Applies to students who entered after Fall 2011)

<table>
<thead>
<tr>
<th>Science &amp; Engineering (SE):</th>
<th>Remaining Requirements</th>
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<tbody>
<tr>
<td>CHE 2A 5</td>
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<tr>
<td>ANS 2 4</td>
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<td>BIS 101 4</td>
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<td>ANS 123 4</td>
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<td>ANS 124 4</td>
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<td>12-20 units max. 20</td>
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### Arts & Humanities (AH):

12-20 units

### Social Sciences (SS):

(ANS 112, 141, 148, 170)

Total AH+SS: 32 units

### Civic & Cultural Literacy (3 courses required):

- American Cultures, Governance & History (ACGH):
  - 3 units

### Literacy with Words & Images:

#### Writing Experience (WE):

- ANS 2 4
- ANS 123 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

Total: 18 units

### Visual Literacy (VL):

- BIS 2B 5
- 3 units complete

### Quantitative Literacy (QL):

- MAT 16A 3
- 3 units complete

Total: 9 units

For more information, visit [http://catalog.ucdavis.edu/ugraded/gereqt.html](http://catalog.ucdavis.edu/ugraded/gereqt.html).
ANIMAL SCIENCE MAJOR STUDY PLAN

Students must total 39 units in three quarters or regular academic year. (Average of 13 units per quarter; e.g. take 12, 12, and 15 units)

<table>
<thead>
<tr>
<th>NAME:</th>
<th>ENTERED MAJOR:</th>
<th>Qtr./Yr.:</th>
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<tbody>
<tr>
<td>FALL</td>
<td>WINTER</td>
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<tr>
<th>Summer Session (I, II)</th>
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Note: First year students are highly recommended to take CHE 2A fall quarter, if unable to then start BIS 2A instead.

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<th>Summer Session (I, II)</th>
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Note: It is important to complete CHE 8A and 8B or equivalent in the sophomore year.

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<tr>
<th>Summer Session (I, II)</th>
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Note: It is important to complete ABI 102 & ABI 103 and BIS 101 in the junior year.

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<th>FALL</th>
<th>WINTER</th>
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| Summer Session (I, II) |

1. Complete this STUDY PLAN early.
2. MAJOR CERTIFICATION for the major must be completed in the quarter of graduation.
3. At LEAST 180 units with at least 54 upper division units are required for the B.S. degree.