Agricultural Sciences Major
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This document refers to and is a companion to the full curriculum.

AGRICULTURAL SCIENCES MAJOR CURRICULUM CHECKLIST

I. LIFE SCIENCES CORE FOR CALS AND AG SCIENCES
Minimum 6 credits of life sciences biology required. Those with AP bio credit or planning for research/grad school should discuss options with advisor.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Foundations of Biology (BIOG 1140 recommended), fall, 4 credits</td>
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<tr>
<td>Biology options, variable semesters and credit (select at least 1 course below if beginning with BIOG 1140)</td>
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<tr>
<td>BIOAP 1100 Domestic Animal Biology, fall 4 credits *Fall MWF 9:05</td>
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<tr>
<td>BIOG 1440 or BIOG 1445 Comparative Physiology, fall, spring, summer, 3-4 credits</td>
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<tr>
<td>BIOG 1500 Investigative Biology Laboratory, fall, spring, summer, 2 credits</td>
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<tr>
<td>BIOEE 1610 Ecology and the Environment, fall, spring, 3-4 credits</td>
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<td>BIOEE 1780 Evolutionary Biology and Diversity, fall, spring, 4-5 credits</td>
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<tr>
<td>BIOMG 1350 Cell and Developmental Biology, fall, spring, 3 credits</td>
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<tr>
<td>PLBIO 2410 Introductory Plant Biodiversity and Evolution, fall, 3 credits</td>
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<tr>
<td>PLHRT 1115 The Nature of Plants, spring, 3 credits</td>
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<tr>
<td>Chemistry, minimum of one life sciences course required (1560 recommended, if not planning graduate school), fall, 4 credits (see full curriculum guide for more options). Non-life science courses without a lab like CHEM 1150 are NOT accepted.</td>
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<tr>
<td>Statistics, minimum of one course required (see full curriculum guide for options)</td>
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II. SOCIAL SCIENCES AND HUMANITIES
Met diversity requirement ______ Course _______________
Four courses of three or more credits each. Courses must be from at least three different categories, of which at least one is also a human diversity course (D).

<table>
<thead>
<tr>
<th>Category</th>
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<tbody>
<tr>
<td>Cultural Analysis (CA)</td>
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<tr>
<td>Foreign Language (FL)</td>
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<tr>
<td>Historical Analysis (HA)</td>
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<tr>
<td>Human Diversity (D)</td>
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<tr>
<td>Knowledge, Cognition, and Moral Reasoning (KCM)</td>
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<tr>
<td>Literature and the Arts (LA)</td>
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<tr>
<td>Social and Behavioral Analysis (SBA)</td>
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III. WRITTEN AND ORAL EXPRESSION 9 credits total (can take all 9 cr. as written)

<table>
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<th>Credit Type</th>
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<tr>
<td>Minimum 6 credits written expression</td>
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<tr>
<td>3 credits oral expression</td>
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</table>
IV. CORE REQUIRED COURSES FOR MAJOR (13 courses, 6 have choices)

Core requirements are strongly encouraged to be completed for letter grade. If you want to change your grading option to S-U, you must request approval by notifying your advisor and the Ag Sciences director beforehand. A core course may not also be double-counted as a concentration course for Ag Sciences Major graduation requirements.

Common schedule courses for the first year:
1. AGSCI/PLCS 1125 Guided Explorations: Growing You and Your Path in the Agricultural Sciences, fall, 1 credit. Required for fall freshmen and transfers. Other transfers (internal, intra-CALS, double majors, January-entry students) should consult director or coordinator on requirement.
2. PLSCI 1101 Plant Science and Systems, fall, 4 credits
3. PLCS 1900 Sustainable Agriculture: Food, Farming, and the Future, fall, 3 credits

Common schedule courses for the second year:
4. Choose ONE Food Science course from list (2-3 credits)
5. PLSCS 2600 Soil Science, fall, 4 credits *Fall MWF 9:05
6. PLSCS 2110 Field Crop Systems, fall, 4 credits
7. Choose ONE Communication or Education course from list (3 credits)
8. Choose ONE Introductory Business Management course from list (3-4 credits)
9. Choose ONE Genetics course from list (3-5 credits)

Common schedule courses for the third year:
10. AGSCI 4960 Internship Experience (1-3 credits)
11. Choose ONE Animal Science course from list (3-4 credits)
12. Choose ONE International Agriculture course from list (2-4 credits)
13. ENTOM/PLCS 4440 Integrated Pest Management, spring, 4 credits

V. CONCENTRATIONS

Students must choose at least one of the six concentrations below: Animal Science, Business, Education/Communication, Crop Production and Management, Organic Agriculture, or Sustainable Agriculture. Concentration coursework must be taken letter grade, if student-option for course grade provided. A concentration course may not also be double-counted as a core course for Ag Sciences Major graduation requirements.

CONCENTRATION IN: ANIMAL SCIENCE
12 credits required; At least six credits in each of two lists
- Course from list 1
- Course from list 1
- Course from list 2
- Course from list 2

CONCENTRATION IN: BUSINESS
- Accounting
- Finance
- Marketing
- Additional 3 or more credits from category choices
### CONCENTRATION IN: EDUCATION AND COMMUNICATION

Students should work with appropriate faculty advisors in selecting at least 12 credits of coursework to meet individual goals.

- Balance CALS written oral expression with minimum 6 credits writing, 3 credits oral
- Complete Ag Sciences core course requirement Communication or Education from list
- Plan minimum of 12 additional credits towards Education, Communication, or English/Creative Writing minors

### CONCENTRATION IN: CROP PRODUCTION AND MANAGEMENT

Select at least two credits in each of four areas of study: Field Crops, Horticulture, Pest Management, Soil Science

- Course from list in Field Crops category
- Course from list in Horticulture category
- Course from list in Pest Management category
- Course from list in Soil Science category

### CONCENTRATION IN: ORGANIC AGRICULTURE - NEW FALL 2017

Three required courses and one choice course

- ENTOM/PLHRT 4730 Ecology of Agricultural Systems, fall, 3 credits
- PLSCS 3800 Principles and Practices in Certified Organic Agriculture, spring 2 credits
- PLSCS 3150 Weed Biology and Management, fall, 4 credits
- Minimum of 3 credits of coursework from the following choice list

### CONCENTRATION IN: SUSTAINABLE AGRICULTURE (under revision Fall 2017, students may still pursue until further notice)

Two required courses and two electives from list

- DSOC 3400 Agriculture, Food, Sustainability and Social Justice fall, 3 credits [D, KCM, SBA]
- ENTOM/PLHRT 4730 Ecology of Agricultural Systems, fall, 3 credits
- Minimum of 6 credits from choice list