



**California State Polytechnic University, Pomona  
Degree Curriculum Sheet**

Plan (Major) **AGRICULTURAL SCIENCE**  
Subplan/Option \_\_\_\_\_

Catalog Year **2014 - 2015**  
Minimum Units Required **180**

Name \_\_\_\_\_  
Student ID \_\_\_\_\_

| Required Core Courses  |              |           |
|--|--------------|-----------|
| Course   |              | Units     |
| Accounting for Agribusiness  | ABM 224      | 4         |
| International Food and Agribusiness Marketing  | ABM 330      | 4         |
| Orientation to Agriculture   | AG 100       | 1         |
| Agriculture and Modern World*  | AG 101       | 4         |
| Development of Leadership Skills   | AG 464       | 3         |
| Development of Competitive Activities  | AGS 250      | 2         |
| Introduction to Agricultural Education Programs  | AGS 300      | 3         |
| Agriculture Skills and Facilities  | AGS 420/420A | 2/1       |
| Field Experiences in Agricultural Education  | AGS 441      | 4         |
| Senior Project I   | AGS 461      | 2         |
| Senior Project II  | AGS 462      | 2         |
| Fundamentals of Animal Nutrition   | AVS 101      | 4         |
| Animal Science I & Lab   | AVS 112/114L | 4/1       |
| Animal Science II & Lab  | AVS 113/115L | 4/1       |
| Meat Science and Industry & Lab  | AVS 327/327L | 3/1       |
| Horticulture Principles and Practices & Lab  | PLT 131/131L | 3/1       |
| Argonomic Principles and Practice & Lab  | PLT 220/220L | 3/1       |
| Pastures and Forage System & Lab   | PLT 223/223L | 3/1       |
| Basic Soil Science & Lab   | PLT 231/231L | 3/1       |
| Weeds and Weed Control & Lab   | PLT 331/331L | 3/1       |
| *Note: If course(s) is taken to satisfy GE requirements, then student will need to complete additional approved units for Required Core. |              |           |
| <b>Total Units</b>   |              | <b>70</b> |

| Elective Core Courses  |              |       |
|--|--------------|-------|
| Course   |              | Units |
| Mechanized Agriculture   |              | 14    |
| <i>(See advisor for alternative course from Community College)</i> |              |       |
| Subtropical Fruits Lab   | PLT 202L     | (1)   |
| Landscape Drafting and Design & Lab                                | PLT 211/211L | (3/1) |
| Irrigation and Water Management                                    | PLT 232      | (4)   |
| Turfgrass Management & Lab   | PLT 240/240L | (3/1) |
| General Surveying & Lab  | PLT 245/245L | (2/1) |
| Sprinkler Irrigation   | PLT 251      | (4)   |
| Technology Innovations in Plant Science                            | PLT 302      | (4)   |
| Drip Irrigation & Lab  | PLT 340/340L | (2/1) |
| Golf Course Management & Lab                                       | PLT 434/434L | (3/1) |
| <b>Continue next column</b>  |              |       |

| Elective Core Courses                                 |              |           |
|---|--------------|-----------|
| Course  |              | Units     |
| <i>Plant Science (5 units minimum upper division)</i> |              |           |
| Plant Propagation & Lab                               | PLT 132/132L | (3/1)     |
| Agricultural Cropping Systems & Lab                   | PLT 133/133L | (3/1)     |
| Pomology & Lab  | PLT 203/203L | (3/1)     |
| History of Garden Art                                 | PLT 214      | (4)       |
| Culinary Produce Technology                           | PLT 222      | (4)       |
| Introduction to Arthropods & Lab                      | PLT 233/233L | (3/1)     |
| Insects and Civilization                              | PLT 300      | (4)       |
| Pesticide and Hazardous Material Laws                 | PLT 303      | (3)       |
| Plants and Civilization                               | PLT 311      | (4)       |
| Crop Quality and Utilization & Lab                    | PLT 321/321L | (3/1)     |
| Soil Fertility and Fertilizers & Lab                  | PLT 332/332L | (3/1)     |
| Integrated Pest Management                            | PLT 333      | (4)       |
| Bee Science & Lab                                     | PLT 336/336L | (2/1)     |
| Postharvest Physiology & Lab                          | PLT 351/351L | (3/1)     |
| Landscape Contracting and Estimating & Lab            | PLT 416/416L | (3/1)     |
| Landscape Management Problem-Solving & Lab            | PLT 443/443L | (3)       |
| Special Topics for Upper Division Students            | PLT 499/499A | (1-4/1-4) |
| <b>Total Units</b>                                    |              | <b>25</b> |

| Required Support Courses  |                   |           |
|---|-------------------|-----------|
| Course  |                   | Units     |
| The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet. |                   |           |
| Ethical Issues in Food, Agricultural and Apparel Ind (D4)   | AG 401            | 4         |
| Basic Biology (B2,B3)   | BIO 115/115A/115L | 3/1/1     |
| General Chemistry & Lab (B1,B3)   | CHM 121/121L      | 3/1       |
| School Health Education   | KIN 441           | 3         |
| Fundamentals of Physics   | PHY 102           | 4         |
| <b>Total Units</b>  |                   | <b>20</b> |

| Unrestricted Electives   |  |            |
|--|--|------------|
| Course   |  | Units      |
| Select a sufficient number of courses so that the total from "Required Support", "GE" and "Unrestricted Electives" is at least 85 units. |  |            |
| <b>Total Units</b>   |  | <b>0-9</b> |

| General Education Requirements                              |  |           |
|---|--|-----------|
| Area  |  | Units     |
| <b>Area A Communication &amp; Critical Thinking</b>         |  |           |
| 1. Oral Communication                                       |  |           |
| 2. Written Communication                                    |  |           |
| 3. Critical Thinking  |  |           |
| <b>Area B Mathematics &amp; Natural Sciences</b>            |  |           |
| <i>Select at least one lab course from subarea 1 or 2.</i>  |  |           |
| 1. Physical Science   |  |           |
| 2. Biological Science                                       |  |           |
| 3. Laboratory Activity                                      |  |           |
| 4. Math/Quantitative Reasoning                              |  |           |
| 5. Science & Technology Synthesis                           |  |           |
| <b>Area C Humanities</b>                                    |  |           |
| 1. Visual and Performing Arts                               |  |           |
| 2. Philosophy and Civilization                              |  |           |
| 3. Literature and Foreign Language                          |  |           |
| 4. Humanities Synthesis                                     |  |           |
| <b>Area D Social Sciences</b>                               |  |           |
| 1. U.S. History, Constitution, American Ideals              |  |           |
| a. United States History                                    |  |           |
| b. Introduction to American Government                      |  |           |
| 2. History, Economics and Political Science                 |  |           |
| 3. Sociology, Anthropology, Ethnic & Gender Studies         |  |           |
| 4. Social Science Synthesis                                 |  |           |
| <b>Area E Lifelong Understanding &amp; Self Development</b> |  | <b>4</b>  |
| <b>Total Units</b>  |  | <b>68</b> |

| American Institutions   |  |          |
|---|--|----------|
| Area  |  | Units    |
| Courses that satisfy this requirement may also satisfy GE Area D1 |  |          |
|   |  | <b>8</b> |

| American Cultural Perspectives Requirement   |  |          |
|--|--|----------|
| Area   |  | Units    |
| Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements. |  |          |
|  |  | <b>4</b> |

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.

## Single Subjects Teaching Credential

### **Subject Matter Program**

In order to qualify for a credential through course work rather than the CSET, candidates must complete the following:

18 units in Animal Veterinary or Animal Health Science

18 units in Agricultural Mechanics, Agricultural Engineering, Landscape Irrigation, Plant Science (Mechanized Agriculture)

8 units in Agricultural Business Management and/or Farm Management/ Agricultural Economics

27 units in a combination of courses in Plant Science (which includes Horticulture, Agronomy, Soils, Entomology, and/or Pathology).

Students who are Agricultural Science majors automatically meet this requirement as a part of their degree requirements.

Others should consult with the Agricultural Education Coordinator. In addition to a B.S. in Agriculture, students preparing to student teach must complete requirements for the Single Subjects Credential. The courses to be taken are required of all teaching credential candidates regardless of subject matter area.

### **Agricultural Specialist Credential**

In addition to a B.S. in Agriculture, students preparing to teach agriculture must complete the requirements for the Single Subject credential and the requirements for the Agricultural Specialist Credential. The courses include:

- AGS 300 - Introduction to Agricultural Education Programs (3)
- AGS 400 - Special Study for Upper Division Students (1-2)
- AGS 420/420A - Agriculture Skills and Facilities (2/1)
- AGS 430 - Program Planning and Development (3)
- AGS 440/440A - Procedures in Agricultural Education (2/2)
- AGS 441 - Field Experiences in Agricultural Education (4)
- AGS 505/505A - Young and Adult Programs and Adult Leadership (2/1)

Note(s):

Students are also required to have a concentration of 27 units, including 12 upper division, in one area of agriculture. This is generally completed as an undergraduate. A minimum of 3000 hours of verified work experience in the agriculture industry is also required. A total of 45 graduate credit units are required for the Agricultural Specialist Credential.

Students may complete the requirements for both the Single Subject and the Agricultural Specialist Credentials concurrently. A limited number of courses may be taken at the undergraduate level. Students should consult with the Agricultural Education program coordinator prior to enrolling in any courses to be used for credentialing purposes.