PLANT BIOLOGY MAJOR (B.S.)
COLLEGE OF AGRICULTURE AND LIFE SCIENCES

CURRICULUM CHECKLIST – 2015-16
(See current catalogue for complete description)

University Requirements

Successful completion of a minimum of 120 credit hours with a minimum GPA of 2.00.

Two approved diversity courses, at least one of which is in Diversity Category 1 (Race & Racism in the U.S.).

1. (D1) ______________________  2. ______________________

One approved writing and information literacy course
(beginning with entering first-year class in fall 2014)

1. __________________________

One approved sustainability course, curriculum, or co-curricular module
(beginning with entering first-year class in fall 2015)

1. __________________________

College Requirements

A. Knowledge

1. Science:
   a. *Physical and Life Sciences: two courses in subjects such as anatomy, animal science, biology, chemistry, ecology, entomology, food science, forestry, geology, horticulture, genetics, microbiology, nutrition, physics, physiology, plant biology, and soil science.

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   b. Social Science: two courses in subjects such as anthropology, community development, economics, geography, history, political science, public policy, psychology, and sociology.

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2. Humanities and Fine Arts: two courses in subjects such as art, classics, history, literature, music, philosophy, religion, language, and theater.

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B. Skills

1. Communication Skills:
   a. Oral: two courses:

      CALS 001 or CALS 183 (or equivalent) where primary focus is public speaking.

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      and an additional course or series of courses in which students present a total of at least three graded speeches to a group.

      ____________________________  (___________________)  (___________________)
b. Written: two courses:

any English writing course

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and an additional course or series of courses that uses the writing process (redrafting) for a minimum of three graded papers in total.

________________________ (____________________) (____________________)

2. Information Technology: one course: CALS 002 or CALS 85 (or equivalent).

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3. Quantitative Skills:

a. *Mathematics: one course: Math 9 or higher.

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b. *Statistics one course: Statistics 111 or higher or equivalent.

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*Requirements marked with an asterisk are filled by completion of Plant Biology major requirements.

Plant Biology Major Requirements

Core Courses:

Exploring Biology, BCOR 011, BCOR 012

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Genetics, BCOR 101

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Plant Physiology, PBIO 104

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Inorganic Chemistry, CHEM 031, CHEM 032

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Organic Chemistry, CHEM 141, CHEM 142

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Calculus, MATH 019, MATH 020 or MATH 021, MATH 022

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Physics, PHYS 011 and 021 or PHYS 051

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Statistics, STAT 141, STAT 211, or NR 140

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Students must also complete the requirements for one of the following concentrations:

**General Plant Biology Concentration:**

Ecology and Evolution, BCOR 102  or  Molecular and Cell Biology, BCOR 103

Morphology & Evolution of Vascular Plants, PBIO 108  or  Plant Systematics, PBIO 109

plus at least 18 credits of advanced (≥100) courses relevant to plant biology (at least 6 credits must be PBIO courses and at least 6 credits must be 200-level courses) selected in consultation with your advisor.

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**Ecology and Evolutionary Biology of Plants Concentration:**

Ecology and Evolution, BCOR 102

Morphology & Evolution of Vascular Plants, PBIO 108

Plant Systematics, PBIO 109

plus at least 15 credits of advanced (≥100) courses relevant to plant biology (at least 6 credits must be PBIO courses, at least 6 credits must be 200-level courses, and at least 3 credits must be in ecology) selected in consultation with your advisor.

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**Plant Molecular Biology Concentration:**

Molecular and Cell Biology, BCOR 103

Morphology & Evolution of Vascular Plants, PBIO 108  or  Plant Systematics, PBIO 109

Biochemistry: BIOC 205, BIOC 206, BIOC 207 (PBIO 185, PBIO 187 may be substituted with advisor permission)
plus at least 12 credits of advanced (≥100) courses relevant to plant biology (at least 6 credits must be PBIO courses and at least 6 credits must be 200-level courses) selected in consultation with your advisor.