

**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.

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

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

B. Skills

1. Communication Skills:

a. Oral: **two courses**:

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

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

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).

3. Quantitative Skills:

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

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

**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

Genetics, BCOR 101

Plant Physiology, PBIO 104

Inorganic Chemistry, CHEM 031, CHEM 032

Organic Chemistry, CHEM 141, CHEM 142

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

Physics, PHYS 011 and 021 *or* PHYS 051

Statistics, STAT 141, STAT 211, *or* NR 140

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.

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.

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 P BIO courses and at least 6 credits must be 200-level courses) selected in consultation with your advisor.
