

**PLANT BIOLOGY MAJOR
COLLEGE OF AGRICULTURE AND LIFE SCIENCES**

**CURRICULUM CHECKLIST – 2009-10
(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. _____

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 *or* PHYS 031; PHYS 021

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

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

plus at least 18 credits hours (including at least two 200-level Plant Biology courses) selected in consultation with your advisor. An up-to-date list of approved courses for this concentration may be found on the department's website.

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 18 credit hours (including at least one ecology course and two 200-level Plant Biology courses) selected in consultation with your advisor. An up-to-date list of approved courses for this concentration may be found on the department's website.

Plant Molecular Biology Concentration:

Biochemistry and lab, PBIO 201, PBIO 202 *or* BIOC 205, BIOC 206, BIOC 207

Microbiology and Infectious Disease, MMG 101

Molecular and Cell Biology, BCOR 103

plus at least 12 credit hours (including at least two 100- or 200-level Plant Biology courses) selected in consultation with your advisor. An up-to-date list of approved courses for this concentration may be found on the department's website.
