

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

**CURRICULUM CHECKLIST – 2021-22
(See current catalogue for complete description)**

General Education (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 (D1, Race & Racism in the U.S.).

(D1) _____ (D1 *or* D2) _____

An approved Sustainability (SU) course _____

An approved Foundational Writing and Information Literacy Course
(ENGS001, HCOL085, or a TAP class) _____

An approved Quantitative Reasoning (QR) course _____

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 (fulfilled by the Gen. Ed. Requirement for FWIL, see above)

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 ((fulfilled by the Gen. Ed. Requirement for QR, see above)

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

Required Foundational Courses:

Exploring Biology, BCOR 011 and BCOR 012 **or** BCOR 021 or approved equivalent

Inorganic Chemistry, CHEM 031 and CHEM 032

Organic Chemistry, CHEM 141 and CHEM 142

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

Physics, PHYS 011 and PHYS 021 **or** PHYS 051

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

Required Major Courses:

Genetics (BCOR 101)

Ecology and Evolution (BCOR 102) *or* Molecular and Cell Biology (BCOR 103)

Plant Physiology (P BIO 104)

Plant Systematics (P BIO 109) *or* Morphology & Evolution of Vascular Plants (P BIO 108)

Senior Capstone (P BIO 295)

At least 12 additional P BIO credit hours at the 100 or 200 level. At least 6 of these must be at the 200 level[†].

[†]Note: P BIO 185 and 187 do not fulfill this requirement.**Required Elective Courses:**

An additional 12-14 credits of advanced (≥100-level) elective courses relevant to plant biology, selected in consultation with the advisor.

Acceptable courses include - but are not limited to - the following:

ASCI 230; **BCOR** 103; **BIOL** 168, 202, 203, 208, 209, 238, 254, 263, 264, 265, 269, 270, 271, 280; **ENSC** 201; **ENVS** 160; **FOR** 121, 122, 146, 225, 228; **GEOG** 140, 144, 184, 185; **GEOL** 101, 151, 217; **MMG** 101, 104, 201, 211, 220, 225, 231, 232, 233, 240; **NFS** 243; **NR** 103, 141, 146, 220, 224, 228, 242, 243, 245, 260, 268; **P BIO** 108, 109, 117, 151, 177, 209, 213, 223, 226, 232, 241, 251, 260, 261, 275, 294; **PHRM** 200, 272, 290; **PSS** 117, 161, 162, 261, 268; Special Topics courses at advisor's discretion; Undergraduate Research for credit.