

**Plant Biology—Cell Biology and Biotechnology Major (B.S.)
Special curriculum; major code BS2118**

The Department of Environmental and Plant Biology offers this program for students who are interested in pursuing a profession in biotechnology or biology at the cellular or molecular level. It can provide you with a sound basis for a technical career or for graduate study with a view to a career in research or teaching.

Required P BIO courses

PBIO 114	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 431	Cell Biology	5
PBIO 442	Experimental Anatomy of Plant Development	5
PBIO 450	Biotechnology and Genetic Engineering	4
PBIO 404 or PBIO 490	Undergraduate Research Internship	2-6 2-10

Two additional P BIO courses at 300 level or above.

Required nondepartmental courses:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 490	General Biochemistry	4
CHEM 303, 304, 305, 306, 307 or CHEM 301, 302, 303, 304	Organic Chemistry, Lab Organic Chemistry, Lab	14 11
BIOS 171, 173 BIOS 321	Intro to Zoology Microbiology	6 6
PHYS 201, 202, 203 or PHYS 251, 252, 253	Intro to Physics General Physics	15
MATH 163A, B or MATH 263A, B	Intro to Calculus Calculus	7 8

or MATH 266 A, B*	Calculus with Bio App.	8
PSY 221	Statistics for Beh. Sci.	5
or MATH 250	Intro to Prob. and Stat.	4

*preferred math option

Recommended departmental electives:

PBIO 415	Quantitative Methods in Plant Biology	5
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PBIO 418	Writing in the Plant Sciences	4
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Arts and Sciences degree requirements (including language),
University General Education Requirements, and/or electives.