

Major requirements to complete a B.A. or B.S. degree in Plant Biology (2008-10)

Courses No.	Hrs.	Course Name	Prerequisites
CHEM 200, 201	3,1	Intro to Chemical Principles with lab	high school algebra and chemistry
CHEM 210, 211	3,1	General and Inorganic Chemistry with lab	CHEM 200, 201 with C or better
or CHEM 339, 341	3,2	Organic Chemistry with laboratory	CHEM 210, 211 with C or better

A second year of physical science (chemistry or physics) at the 200-level or above is required for the B.S. degree. Math 141 or an approved substitution is required for the B.S. degree.

BIOL 200A	4	Cell & Molecular Biol, Genetics & Evolution	high school biology and chemistry
BIOL 200B	4	Organismal and Ecological Biology	high school biology and chemistry
BIOL 305/PLSS 305	3/4	Classical & Molecular Genetics/Plant Genetics	BIOL 200A, B; chemistry
BIOL 306	3	Cell Biology	BIOL 200A, B; chemistry
BIOL 307	3	Principles of Ecology	BIOL 200A, B; chemistry; Math 108
PLB 300	4	Plant Diversity	BIOL 200B or PLB 200
PLB 304	4	Elements of Plant Systematics	BIOL 200B or PLB 200
PLB 320	4	Elements of Plant Physiology	BIOL 200B or PLB 200, Organic Chem
PLB 360	3	Introductory Biostatistics	MATH 108
PLB 480	1	Senior Seminar	Senior Standing

Finish one of the following specializations (16 hours minimum)

(Included in the 16 hours, each specialization also requires one course from one of the other specializations.)

Ecology Specialization 12-13 hrs from the following:

PLB 410-4	Ecology of Bryophytes
PLB 416-3	Limnology
PLB 435-3	Plant-Insect Interactions
PLB 439-2	Natural Areas and Rare and Endangered Species
PLB 440-3	Grassland Ecology
PLB 443-3	Restoration Ecology
PLB 444-4	Quantitative Plant Ecology
PLB 445-5	Wetland Ecology & Management
PLB 447-2 to 6	Field Studies in Latin America
PLB 450-2	Plant Geography
PLB 452-4	Plant Population Ecology

General Plant Biology Specialization

Students must take at least one course from each of the three specializations, plus additional Plant Biology courses to total a minimum of 16 hours.

Molecular & Biochemical Physiology Specialization

PLB 419-3	Plant Molecular Biology
Plus 13 hours, 9-10 hours from the following:	
PLB 400-4	Plant Anatomy
PLB 420-3	Techniques in Molecular Biology
PLB 425B-5	Mineral Nutrition & Membrane Physiology
PLB 427-5	Plant Biochemistry
PLB 433-4	Intro to Agricultural Biotech
PLB 475-3	Advanced Cell Biology
PLB 476-2	Advanced Cell Biology Lab

Systematics and Biodiversity Specialization

PLB 449-3	Plant Systematics & Evolution
Plus 13 hours, 9-10 hours from the following:	
PLB 400-4	Plant Anatomy
PLB 405-4	The Fungi
PLB 406-3	Bryology
PLB 409-3	Field Mycology
PLB 415-5	Morphology of Vascular Plants
PLB 420-3	Techniques in Molecular Biology
PLB 439-2	Natural Areas and Rare and Endangered Species
PLB 447-2 to 6	Field Studies in Latin America
PLB 450-2	Plant Geography
PLB 451-3	Flora of Southern Illinois

Supportive Skills - at least 6 credit hrs chosen from: CS 105 or 200b, 201, 202; Engl 291; 1 year foreign language

Plant Biology majors must see their department faculty advisor before registering for EACH semester.

The Plant Biology Department faculty advisor is Dr. Dale Vitt in LS II 420, phone 618-536-2331, fax 618-453-3441, email address plant-biology@plant.siu.edu

The College of Science Advisement office is located in Neckers A185, phone 618-536-5537, fax 618-453-7067, email us at advise@cos.siu.edu or see our web site at <http://www.science.siu.edu/advisement/index.html> The College of Science advisors are Dana McKenzie, Jean McPherson, and Becky Reed.