Requirements for Plant Biology B.S. (CALS) or B. A. (Arts & Sciences)

Updated December, 2008 (T. Delaney)

***A) FULFILL <u>COLLEGE</u>* CORE REQUIREMENTS: See CALS or Arts & Sciences Webpages**				
***B) FULFILL <u>PLANT BIOLOGY MAJOR CORE</u>* COURSE REQUIREMENTS (45-48 Credits)**				
COURSE	**TITLE (Credits)**	**Complete thirteen courses that form the PLANT BIOLOGY MAJOR CORE**		
BCOR 011	Exploring Biology (4)	X		
BCOR 012	Exploring Biology (4)	X		
BCOR 101	Genetics (3)	X		
PBIO 104	Plant Physiology (4)	X		
CHEM 031*	Introductory Chemistry (4)	X		
CHEM 032*	Introductory Chemistry (4)	X		
CHEM 141*	Organic Chemistry (4)	X		
CHEM 142*	Organic Chemistry (4)	X		
MATH 019 & MATH 020, or MATH 021 & MATH 022	Fundamentals of Calculus I and II (3 + 3) Calculus I and II (4 + 4)	X X X X	<Either pair> <of courses>	
PHYS 011 or PHYS 031	Physics (4)	One Physics course		
PHYS 021 (lab)	Physics Lab (1)	Physics lab to accompany		
STAT 141, STAT 211, or NR 140	Basic Statistical Methods Statistical Methods I (3) Nat. Resource Biostats (4)	One Statistics course		
C) *FULFILL <u>SPECIALIZED COURSEWORK</u>* IN A SELECTED CONCENTRATION AREA:				
COURSE	**TITLE (Credits)**	GENERAL PLANT BIOL (26 credits)	ECOLOGY & EVOL BIOL (27 credits)	PLANT MOLEC BIOLOGY (24-28 credits)
BCOR 102	Ecology and Evolution (4)	X	X	
PBIO 108	Morph & Evol Vasc Pl (4)	either	X	
PBIO 109	Systemat & Phylogeny (4)		X	
PBIO 201	General Biochem (3)			either PBIO 201&202 or BIOC 205, 206, & 207
PBIO 202	General Biochem lab (1)			
BIOC 205	Biochemistry I (3)			
BIOC 206	Biochemistry II (3)			
BIOC 207	BIOC lab, 1 semester (2)			
MMG 101	Biol of Microorganisms (4)			X
BCOR 103	Molec and Cell Biology (4)			X
Additional coursework by concentration (see below)		18 cr.	15 cr.	12 cr.

Addnl courses	GENERAL PLANT BIOLOGY (at least 18 credits)	ECOL & EVOL BIOL (at least 15 credits)	PLANT MOLEC BIOL (at least 12 credits)
	Including at least <u>two</u> 200-level **PBIO** courses. Acceptable courses: **BCOR** 103; **BIOL** 203, 238, 254, 263, 264, 265, 269, 270, 271; **ENSC** 101, 201; **FOR** 021, 120, 121, 122, 126, 225, 228, 234; **GEOG** 081; **GEOL** 001, 055, 101, 151; **MMG** 220, 225, 240, 262; **NR** 220, 224, 260; **PBIO** 117, 201, 202, 205, 209, 213, 223, 232, 234, 241, 256, 257, 260, 261, 262; **PHRM** 272, 290; **PSS** 117, 152, 161, 215, 261; Special Topics courses at advisor's discretion; Undergraduate Research for credit.	Including at least <u>two</u> 200-level **PBIO** courses; AND <u>one</u> **ecology** course. Acceptable courses: **BCOR** 103; **BIOL** 203, 238, 254, 264, 269, 270, 271; **ENSC** 101, 201; **FOR** 021, 120, 121, 122, 126, 225, 228, 234; **GEOG** 081; **GEOL** 001, 055, 101, 151; **MMG** 220, 262; **NR** 220, 224, 260; **PBIO** 117, 201, 202, 205, 209, 213, 223, 232, 234, 241, 260, 261, 262; **PSS** 117, 152, 161, 215; Special Topics courses at advisor's discretion; Undergraduate Research for credit.	Including at least <u>two</u> 100- or 200-level **PBIO** courses. Acceptable courses: **ASCI** 230; **BIOL** 263, 265; **MMG** 211, 220, 225, 240, 262; **NFS** 243; **PBIO** 108, 109, 117, 205, 209, 256, 257, 261, 262; **PHRM** 272, 290; **PSS** 117; Special Topics courses at advisor's discretion; Undergraduate Research for credit.

*Students who want to double major in chemistry or who want an especially strong foundation in chemistry may instead enroll in the courses for Chemistry majors: CHEM 035, 036, 143, 144.