

Spring 2017 Biology Major Plant Biology Option - Updated 12/15/16				
1. Mathematics				
	Number	Course Title	Credits	
Math	217	Calc with Algebra & Trig II	5	
Math	221	Calculus&Analytic Geometry	5	
Math	222	Calculus&Analytic Geometry	4	
Statistics	301	Intro-Statistical Methods	3	
Statistics	371	Intro Applied Stats-Life Sci	3	
2. Chemistry				
Chemistry	103	General Chemistry I	4	
Chemistry	104	General Chemistry II	5	
Chemistry	343	Intro Organic Chemistry	3	
Chemistry	344	Intro Organic Chemistry Lab	2	
Chemistry	345	Intmed Organic Chemistry	3	
3. Physics				
Physics	103	General Physics	4	
Physics	104	General Physics	4	
Physics	201	General Physics	5	
Physics	202	General Physics	5	
Physics	207	General Physics	5	
Physics	208	General Physics	5	
4. Introductory Biology				
Biology/Zoology	101	Animal Biology	3	
Biology/Zoology	102	Animal Biology Laboratory	2	
Biology/Botany	130	General Botany	5	
Biology/Botany/Zoology	151	Introductory Biology	5	
Biology/Botany/Zoology	152	Introductory Biology	5	
Biocore	383	Cellular Biology	3	
Biocore	384	Cellular Biology Lab	2	
Biocore	587	Biological Interactions	3	
Foundational Courses (not required if completing Biocore)				
Agron/Hort	338	Plant Breeding & Biotechnology	3	
Biochem	501	Introduction-Biochem	3	
Biochem	508	General Biochemistry II	3	
Genetics	466	Principles of Genetics	3	
Genetics	468	General Genetics II	3	
5A. Cellular and Subcellular Biology			Credits	Lab
Agronomy/Hort	338	Plant Breeding & Biotechnology	3	
Agronomy/Botany/Hort	340	Plant Cell Culture & Genetic Engineering	4	Y
Biochem	501	Introduction to Biochemistry	3	
Biochem	508	General Biochemistry II	3	
Biochem/Botany	621	Plant Biochemistry	3	
Botany/Entom/PI Path	505	Plant-Microbe Interactions: Molecular & Ecological Aspects	3	
Genetics	466	Principles of Genetics	3	
5B Organismal Biology				
Botany	300	Plant Anatomy	4	Y
Botany	305	Plant Morphology & Evolution	4	Y

Botany/PI Path	332	Fungi	4	Y
Botany	500	Plant Physiology	4	Y
Entom/Zoology	302	Introduction to Entomology	4	Y
5C. Ecology				
Botany/F&W Ecol/Zoology	460	General Ecology	4	Y
F&W Ecol/Land Arc/Zoology	565	Principles of Landscape Ecology	2	
Microbio	375	The Microbiome of Plants, Animals & Humans	3	
PI Path	375	Plant Microbiomes	4	Y
5D. Evolution & Systematics				
Anthro/Botany/Zoology	410	Evolutionary Biology	3	
Botany	422	Plant Geography	3	
Genetics	468	General Genetics II	3	
5E. Applied Biology, Agriculture & Natural Resources				
AAE/Agronomy/Inter-Ag/Nutr Sci	350	World Hunger & Malnutrition	3	
Agronomy	300	Cropping Systems	3	
Agronomy/Hort/PI Path	360/375	Genetically Modified Crops: Science, Regulation & Controversy	2	
Agronomy	377	Cropping Systems of the Tropics	3	
Agronomy/Hort	501	Principles of Plant Breeding	3	
Biology/Genetics	522	Evolution Seminar Series	1	
Botany	575	Principles & Applications of Forensic Botany	3	N
F&W Ecol	410	Principles of Silviculture	3-4	
Genetics/Hort	550	Molecular Approaches for Potential Crop Improvement	3	
Hort	372	Colloquium in Organic Agriculture	1	
Hort/Path-Bio	500	Molecular Biology Techniques	3	Y
Seminar				
Botany/PI Path	575/375	Frontiers in Plant Biology	1	
Capstone (CALS only)				
BMolChem	504	Human Biochemistry Laboratory	2	Y
Botany/F&W Ecol/Zoology	460	General Ecology	4	Y
Envir St/Zoology	511	Ecology of Fishes Lab	2	Y
Microbio	551	Physiological Diversity of Prokaryotes Lab	2	Y
Physiol	435	Fundamentals of Human Physiology	5	Y