

Plant Biotechnology Option

Freshman Year	Credits
WRIT 101W - College Writing I	3
BIOB 170IN - Principles of Biological Diversity	4
BIOO 220 - General Botany	3
CHMY 141 - College Chemistry I & CHMY 142 - College Chemistry I Lab	4
BIOB 160 - Principles of Living Systems or BIOB 260 - Cellular and Molecular Biology	4
CHMY 143 - College Chemistry II & CHMY 144 - College Chemistry II Lab	4
Select one of the following:	3
BIOB 318 - Biometry*	
STAT 216Q - Introduction to Statistics*	
M 165Q - Calculus for Technology I*	
Select one of the following:	3-4
M 161Q - Survey of Calculus*	
M 166 - Calculus for Technology II*	
M 171Q - Calculus I	
University Core and Electives	2-7
Year Total:	30-36
Sophomore Year	Credits
BIOB 375 - General Genetics	3
CHMY 321 - Organic Chemistry I & CHMY 322 - Organic Chemistry I Lab & CHMY 323 - Organic Chemistry II & CHMY 324 - Organic Chemistry II Lab or CHMY 211 and CHMY 212	5-8
BIOM 360 - General Microbiology	5
ECNS 101IS - Economic Way of Thinking	3
University Core and Electives	14-18
Year Total:	30-37
Total Program Credits:	60-72

* If a student takes BIOB 318 Biometry or STAT 216Q Introduction to Statistics, then the student must take M 161Q Survey of Calculus or M 171Q Calculus I. If a student takes M 165Q Calculus for Technology I, then the student must take M 166 Calculus for Technology II.

Junior Year	Credits
BCH 380 - Biochemistry & BCH 381 - Biochemistry Lab	5
BIOB 430 - Plant Biotechnology	3
Select one of the following:	3
BIOO 433 - Plant Physiology	
BIOO 437 - Plant Development	
BIOO 460 - Plant Metabolism	
PHSX 205 - College Physics I	4
PHSX 207 - College Physics II or STAT 337 - Intermediate Statistics with Introduction to Statistical Computing	3-4
University Core and Electives	12-18
Year Total:	30-37

Senior Year	Credits
Select one of the following:	1-6
BIOB 490R - Undergraduate Research	
BIOB 498 - Internship/Cooperative Edu	
BIOM 421 - Concepts of Plant Pathology	3
BIOO 460 - Plant Metabolism or BIOO 433 - Plant Physiology	3
Select one of the following:	3-4
BCH 444R - Biochemistry & Molecular Biology Methods	
BIOM 455R - Research Mthds in Microbiology	
University Core and Electives	14-18
Year Total:	24-34
Total Program Credits:	120-144

Restricted Electives

Select seven of the following:

AGSC 341	Field Crop Production	3
AGSC 441	Plant Breeding & Genetics	3
BIOB 420	Evolution	3
BIOB 425	Adv Cell & Molecular Biology	3
BIOB 441	Advanced Eukaryotic Genetics	3
BIOB 476R	Gene Construction	4
BIOB 480	Conservation Genetics	3
or BIOB 484	Population Genetics	
BIOE 424	Ecology of Fungi	4
BIOH 465R	Gene Expression Lab: From Genes to Proteins to Cells	3
BIOM 410	Microbial Genetics	3
BIOM 423	Mycology	3
BIOM 430	Applied and Environmental Microbiology	4
BIOM 450	Microbial Physiology	3
BIOM 465	Plant-Pathogen Interactions	3
BIOO 437	Plant Development	3